

ELECTRICAL SYMBOL LIST

* This is a standard list and not all symbols and abbreviations may be used. See letter code list at duplex receptacle for options, unless otherwise noted.

<p>LIGHTING</p> <p>⊗ GROUND MOUNTED LANDSCAPE LUMINAIRE</p> <p>⊖ LUMINAIRE RECESSED IN WALL</p> <p>⊕ AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE</p> <p>⊙ AREA LUMINAIRE POLE TOP MOUNTED WITH POLE AND CONCRETE BASE</p> <p>⊕ AREA BOLLARD LUMINAIRE WITH CONCRETE BASE</p> <p>⊙ FLUSH IN GRADE EXTERIOR WATERTIGHT LUMINAIRE</p> <p>□ RECESSED FLUORESCENT 2' X 2' LUMINAIRE</p> <p>○ SURFACE MOUNTED FLUORESCENT 2' X 2' LUMINAIRE</p> <p>⊖ WALL MOUNTED LUMINAIRE</p> <p>□ RECESSED FLUORESCENT 2' X 4' LUMINAIRE</p> <p>⊗ RECESSED 2X4 FLUORESCENT LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT</p> <p>⊗ RECESSED LUMINAIRE</p> <p>⊗ RECESSED WALL WASH LUMINAIRE</p> <p>□ RECESSED FLUORESCENT 1' X 4' LUMINAIRE</p> <p>⊗ RECESSED 1X4 FLUORESCENT LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT</p> <p>○ SURFACE OR PENDANT MOUNTED FLUORESCENT 1' X 4' LUMINAIRE</p> <p>⊗ SURFACE MOUNTED LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT</p> <p>○ SURFACE OR PENDANT MOUNTED FLUORESCENT STRIPLIGHT</p> <p>○ WALL MOUNTED FLUORESCENT LUMINAIRE</p> <p>⊗ EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN</p> <p>⊗ EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN</p> <p>⊗ COMBINATION EXIT SIGN WALL MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK, ARROW(S) INDICATES DIRECTION IF SHOWN</p> <p>⊗ COMBINATION EXIT SIGN CEILING MOUNTED AND DUAL HEAD EMERGENCY EGRESS LIGHTING WITH BATTERY PACK, ARROW(S) INDICATES DIRECTION IF SHOWN</p> <p>⊗ EMERGENCY WALL MOUNT LUMINAIRE CONNECTED TO EMERGENCY CIRCUIT</p> <p>SWITCHES AND RECEPTACLES</p> <p>⊙ SINGLE POLE SWITCH 2 = DOUBLE POLE SWITCH 3 = THREE-WAY SWITCH 4 = FOUR-WAY SWITCH u THRU 2 (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION D = DIMMER E = EMERGENCY EW = EMERGENCY & WEATHER PROOF SWITCH K = KEY OPERATED SWITCH KW = KEY OPERATED & WEATHER PROOF SWITCH KV = KEY OPERATED & LOW VOLTAGE SWITCH KVV = KEY OPERATED, LOW VOLTAGE & WEATHER PROOF SWITCH L = LIGHTED HANDLE M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT S = SENTRY SWITCH T = INTERVAL TIMER W = WEATHER PROOF SWITCH V = LOW VOLTAGE SWITCH</p> <p>⊙ PHOTO ELECTRIC SWITCH D = CONTINUOUS DIMMING PHOTOCELL S = SWITCHED PHOTOCELL</p> <p>⊙ CEILING MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN</p> <p>⊙ WALL MOUNTED OCCUPANCY SENSOR P = PASSIVE INFRARED D = DUAL TECHNOLOGY</p> <p>⊙ WALL MOUNTED OCCUPANCY SENSOR/SWITCH S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.</p> <p>⊙ MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED</p> <p>⊙ DUPLEX RECEPTACLE A = ABOVE COUNTER AG = ABOVE COUNTER & GFCI C = FLUSH CEILING MOUNTED E = EMERGENCY EW = EMERGENCY, WEATHERPROOF CONTINUOUS COVER & GFCI PROTECTED F = ARC FAULT PROTECTED BY BREAKER IN PANEL G = GROUND FAULT CIRCUIT INTERRUPTER K = CHILD RESISTANT COVER L = ISOLATED GROUND P = PENDANT MOUNTED WITH CORD GRIPS, VERIFY PENDANT LENGTH PW = PENDANT MOUNTED IN DAMP/WET LOCATION, PROVIDE CORD GRIPS, CORD CAP AND TRIPLE SEAL RECEPTACLE COVER, VERIFY PENDANT LENGTH. S = SPLIT WIRED T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS COVER AND GFCI PROTECTED</p> <p>⊙ SINGLE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS</p> <p>⊙ DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS</p> <p>⊙ FLOOR PEDESTAL WITH FLOOR BOX OR POKE-THRU BOX, AND DUPLEX RECEPTACLE</p> <p>⊙ FLOOR PEDESTAL WITH FLOOR BOX OR POKE-THRU BOX, AND DOUBLE DUPLEX RECEPTACLE</p> <p>⊙ FLUSH POKE-THRU WITH DUPLEX RECEPTACLE AND RACEWAY FOR SIGNAL CABLES</p> <p>⊙ SPECIAL PURPOSE RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS</p> <p>⊙ TWISTLOCK RECEPTACLE. COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED. VERIFY PENDANT LENGTH. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS</p>	<p>RACEWAYS</p> <p>⊖ CABLE TRAY</p> <p>⊖ SURFACE METAL RECEPTACLE RACEWAY</p> <p>⊖ VERTICAL SURFACE METAL RECEPTACLE RACEWAY</p> <p>CONNECTIONS / EQUIPMENT</p> <p>⊙ MOTOR CONNECTION</p> <p>⊙ NON-FUSED DISCONNECT SWITCH</p> <p>⊙ HEAVY DUTY FUSED DISCONNECT SWITCH</p> <p>⊙ COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH</p> <p>⊙ MOTOR STARTER</p> <p>⊙ UTILITY METER BASE</p> <p>⊙ COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH</p> <p>⊙ MOTOR CONTROL CENTER</p> <p>⊙ BATTERY INVERTER</p> <p>⊙ JUNCTION BOX P = PENDANT EQUIPMENT CONNECTION</p> <p>⊙ TRANSFORMER</p> <p>⊙ CONTACTOR</p> <p>⊙ RELAY</p> <p>⊙ SOLENOID VALVE CONNECTION</p> <p>⊙ PUSHBUTTON</p> <p>⊙ FIRE SMOKE DAMPER WITH END SWITCH</p> <p>MISCELLANEOUS</p> <p>○ CONDUIT ELLED UP</p> <p>○ CONDUIT ELLED DOWN</p> <p>○ CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING</p> <p>○ CONDUIT/WIRING CONTINUATION</p> <p>○ GROUND ROD</p> <p>○ WATER PIPE GROUND CONNECTION</p> <p>○ GROUNDING POINT</p> <p>○ STANDBY/EMERGENCY GENERATOR</p> <p>○ DRY TYPE TRANSFORMER</p> <p>○ LANDING LUG</p> <p>○ CURRENT TRANSFORMER</p> <p>○ FUSED DISCONNECT SWITCH OR SWITCH/FUSE IN SWITCHBOARD</p> <p>○ FUSE</p> <p>○ SWITCH</p> <p>○ CIRCUIT BREAKER</p> <p>○ CIRCUIT BREAKER WITH SHUNT TRIP</p> <p>○ CIRCUIT BREAKER WITH GROUND FAULT INTERRUPTING</p> <p>○ CIRCUIT BREAKER WITH KIRK-KEY LOCK SYSTEM</p> <p>○ SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED</p> <p>○ FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED</p> <p>○ BRANCH PANEL</p> <p>○ FLUSH WALL MOUNTED BRANCH PANEL</p> <p>○ MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL</p> <p>○ FLEXIBLE CONDUIT</p> <p>○ UNDERGROUND PRIMARY SERVICE</p> <p>○ UNDERGROUND SECONDARY SERVICE</p> <p>○ UNDERGROUND TELEPHONE SERVICE</p> <p>○ UNDERGROUND CABLE TELEVISION SERVICE</p> <p>○ OVERHEAD PRIMARY SERVICE</p> <p>○ OVERHEAD TELEPHONE SERVICE</p> <p>○ BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH "YELLOW STRIPE") CONDUCTOR.</p>	<p>MISCELLANEOUS (CONTINUED)</p> <p>○ CONDUIT CONCEALED IN WALL OR CEILING SPACE</p> <p>○ CONDUIT ROUTED BELOW FLOOR / GRADE</p> <p>○ EXISTING CONDUIT CONCEALED IN WALL OR CEILING SPACE</p> <p>○ EXISTING CONDUIT ROUTED BELOW FLOOR / GRADE</p> <p>⊙ SUBGRADE VAULT POWER</p> <p>⊙ SUBGRADE VAULT TELEPHONE</p> <p>⊙ SUBGRADE VAULT CATV</p> <p>○ POWER UTILITY POLE</p> <p>○ TELEPHONE UTILITY POLE</p> <p>⊙ UTILITY TRANSFORMER PAD/VAULT</p> <p>○ SHEET KEYNOTE</p> <p>○ MECHANICAL EQUIPMENT CONNECTION ITEM. REFER TO SCHEDULE</p> <p>○ DETAIL / SHEET CALLOUT TAG</p> <p>ABBREVIATIONS</p> <p>A AMPERES, AMBER</p> <p>AFF ABOVE FINISHED FLOOR</p> <p>AFG ABOVE FINISHED GRADE</p> <p>AIC AVAILABLE INTERRUPTING CAPACITY</p> <p>ATS AUTOMATIC TRANSFER SWITCH</p> <p>AV AUDIO VISUAL</p> <p>BC BARE COPPER</p> <p>C CONDUIT, CLOSE, CONTROL</p> <p>CB CIRCUIT BREAKER</p> <p>CCTV CLOSED CIRCUIT TELEVISION</p> <p>CATV CABLE TELEVISION</p> <p>CLG CEILING</p> <p>CNTL CONTROL</p> <p>COM COMMUNICATION</p> <p>CPT CONTROL POWER TRANSFORMER</p> <p>CR CONTROL RELAY</p> <p>CT CURRENT TRANSFORMER</p> <p>CU COPPER</p> <p>E EMERGENCY</p> <p>(E) EXISTING</p> <p>(ER) EXISTING TO BE RELOCATED</p> <p>(F) FUTURE</p> <p>FA FIRE ALARM</p> <p>FACP FIRE ALARM CONTROL PANEL</p> <p>GFCI GROUND FAULT CIRCUIT INTERRUPTER</p> <p>GFI GROUND FAULT INTERRUPTER</p> <p>G, GND GROUND</p> <p>GRC GALVANIZED RIGID STEEL CONDUIT</p> <p>IG ISOLATED GROUND</p> <p>IMC INTERMEDIATE METAL CONDUIT</p> <p>KV KILOVOLT</p> <p>KVA KILOVOLT AMPERES</p> <p>KW KILOWATT</p> <p>M MOTOR</p> <p>MATV MASTER ANTENNA TELEVISION</p> <p>MCA MINIMUM CIRCUIT AMPS</p> <p>MLO MAIN LUG ONLY</p> <p>MOCP MAXIMUM OVERCURRENT PROTECTION</p> <p>MSB MAIN SWITCHBOARD</p> <p>MTS MANUAL TRANSFER SWITCH</p> <p>NC NORMALLY CLOSED</p> <p>NL NIGHT LIGHT</p> <p>NO NORMALLY OPEN</p> <p>PH PHASE</p> <p>PNL PANEL</p> <p>PVC POLY-VINYL-CHLORIDE</p> <p>(R) EXISTING TO BE REMOVED</p> <p>(RL) NEW LOCATION OF RELOCATED DEVICE/EQUIPMENT</p> <p>TELE TELEPHONE</p> <p>TTB TELEPHONE TERMINAL BOARD</p> <p>TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR</p> <p>TYP TYPICAL</p> <p>UL UNDERWRITERS LABORATORIES</p> <p>UPS UNINTERRUPTIBLE POWER SUPPLY</p> <p>V VOLTS, VOLTAGE</p> <p>W WIRE, WHITE</p> <p>WP WEATHERPROOF</p>
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GENERAL ELECTRICAL NOTES

- A. ALL WORK IS TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL AND STATE CODES.
- B. THE DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED SYSTEMS COMPLETE AND READY FOR USE. ANGLIARY DEVICES, WIRING, RACEWAY, CONNECTIONS AND SIMILAR WORK ALTHOUGH NOT EXPLICITLY STATED BUT REQUIRED FOR PROPER SYSTEM OPERATION OR TO COMPLY WITH CODE ARE TO BE INCLUDED AS A REQUIREMENT OF THE CONTRACT WITHOUT ADDITIONAL COMPENSATION.
- C. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF ELECTRICAL WORK, LAYOUT, ROUGH-IN, AND EXACT LOCATION OF ALL FIXTURES, DEVICES, AND OUTLETS IS TO BE BASED ON THE ARCHITECTURAL DRAWINGS AND COORDINATED WITH FINAL ARRANGEMENT OF MECHANICAL EQUIPMENT.
- D. REFER TO DRAWINGS OF OTHER TRADES FOR COORDINATION OF ELECTRICAL CONSTRUCTION. THE LOCATION OF MECHANICAL EQUIPMENT IS SHOWN DIAGRAMMATICALLY. EXACT LOCATION TO BE FIELD DETERMINED. SEE SPECS FOR TRADE COORDINATION DRAWING SUBMITTAL REQUIREMENTS. DRAWINGS FOR LENGTHS AND LOCATIONS OF ALL EQUIPMENT TO BE INSTALLED UNDER ELECTRICAL CONTRACT.
- E. DO NOT COMMENCE INSTALLATION OF ELECTRICAL SYSTEMS AND EQUIPMENT WITHOUT RELATED SHOP DRAWING APPROVALS.
- F. PROVIDE UL LISTED FIRE RATED SEALS FOR ALL RACEWAY PENETRATIONS THROUGH FIRE RATED WALLS, SLABS, AND CEILINGS.
- G. COORDINATE ALL CONTROL SYSTEM DEVICES, WRING, AND CONNECTIONS WITH REQUIREMENTS OF DRIVEN EQUIPMENT.
- H. PROVIDE SUITABLE ANCHORAGE AND SUPPORT OF ALL ELECTRICAL EQUIPMENT INCLUDING RATED WALLS, SLABS, AND CEILINGS. DEVICES AND RACEWAYS IN ACCORDANCE WITH ESTABLISHED CODES AND THE SPECIFICATIONS.
- I. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- J. THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY EITHER IS TO BE INFERRED TO BE REQUIRED BY BOTH.
 - a. CONTROL SWITCHES: 48 INCHES.
 - b. RECEPTACLES: 18 INCHES.
 - c. TELECOM OUTLETS: 18 INCHES.
 - d. OTHER OUTLETS: AS INDICATED IN OTHER SECTIONS OF SPECIFICATIONS OR AS DETAILED ON DRAWINGS.
- K. EQUIPMENT AND DEVICES FURNISHED UNDER OTHER DIVISIONS OF THIS CONTRACT, BY THE OWNER, OR BY OTHER CONTRACTS, ARE TO BE CONNECTED UNDER THIS CONTRACT.
- L. OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE DRAWINGS, NOTES, AND DETAILS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND BEFORE PROCEEDING WITH THE WORK.
- M. PROVIDE FLUSH MOUNTED INSTALLATION OF ALL DEVICES AND EQUIPMENT IN ALL AREAS U.O.N.
- N. PROVIDE SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN ALL 120 VOLT MULTI-WIRE CIRCUITS.
- O. FOR 120 VOLT, 20 AMP CIRCUITS WHERE THE CIRCUIT DISTANCE FROM THE PANEL BOARD TO THE FARTHEST DEVICE/FIXTURE EXCEEDS 75 FEET PROVIDE #10 SIZE CONDUCTOR.
- P. PROVIDE AS-BUILT DRAWINGS IN AUTOCAD FORMAT PER SPECIFICATIONS.
- Q. ALL ELECTRICAL CONDUIT IS TO BE RUN CONCEALED AND PARALLEL TO BUILDING LINES. ALL ELECTRICAL CONDUIT IS TO BE INSTALLED CONCEALED UNLESS PRIOR TO INSTALLATION OF ANY EXPOSED CONDUIT VERIFY WITH DISTRICT REPRESENTATIVE.
- R. RECEPTACLE OUTLETS SHALL COMPLY WITH CEC SECTION 210.7.
- S. LIGHTS SWITCHES AND CONTROL MECHANISM SHALL COMPLY WITH CEC SECTION 404.
- T. DO NOT INSTALL ELECTRICAL BOXES IN RATED WALLS CLOSER THAN 24" HORIZONTALLY FROM EACH OTHER. OFFSET OUTLET BOXES SHOWN TO BE INSTALLED BACK-TO-BACK IN FIRE RATED WALLS AND PARTITIONS A MINIMUM OF 24" HORIZONTALLY.
- U. BRACE ALL ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION. COMPLY WITH REQUIREMENTS OF TITLE 24. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- V. ALL LIGHTING AND RECEPTACLE CIRCUITRY SHOWN ON THESE DRAWINGS SHALL CONTAIN THE REQUIRED CONDUCTORS. FOR EVERY GROUP OF TWO OR THREE CONSECUTIVE PHASE ORDER CIRCUITS, PROVIDE A DEDICATED NEUTRAL. FOR EXAMPLE, A HOMERUN COMPRISED OF CIRCUITS 1, 3, AND 5 CONTAINS FOUR (4) CONDUCTORS: THREE (3) HOTS AND ONE (1) NEUTRAL. A RUN COMPRISED OF NON-CONSECUTIVE NUMBERS OUT OF PHASE ORDER, I.E., 3, 4, AND 7 OR 1, 9, AND 11 SHALL CONTAIN FIVE CONDUCTORS: THREE (3) HOTS AND TWO (2) NEUTRALS. IN ALL CASES, AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ADDITION TO THE CURRENT-CARRYING CONDUCTORS. PROVIDE ALL CONDUCTORS REQUIRED FOR A COMPLETE OPERATIONAL SYSTEM.
- W. A COMPLETE SYSTEM OF CONDUCTORS SHALL BE INSTALLED IN THE RACEWAY SYSTEM THROUGHOUT THE BUILDING FOR ALL FEEDERS, BRANCH CIRCUITS, ETC.
- X. MOUNT CENTER OF OUTLET BOXES AS REQUIRED BY ADA, OR NOTED ON DRAWINGS, THE FOLLOWING DISTANCE ABOVE THE FLOOR:
 - a. CONTROL SWITCHES: 48 INCHES.
 - b. RECEPTACLES: 18 INCHES.
 - c. TELECOM OUTLETS: 18 INCHES.
 - d. OTHER OUTLETS: AS INDICATED IN OTHER SECTIONS OF SPECIFICATIONS OR AS DETAILED ON DRAWINGS.
- Y. IN MANY LOCATIONS EXISTING ELECTRICAL INSTALLATION IS SUPPORTED BY THE EXISTING T-BAR CEILING. CONTRACTOR TO VERIFY EXACT LOCATIONS OF THIS FIELD CONDITION. WHERE THIS CONDITION OCCURS, CONTRACTOR TO PROVIDE NEW CONDUIT AND WIRING FOR A FULLY CODE CONFORMING INSTALLATION. SUPPORTS TO BE INSTALLED OFF THE EXISTING STRUCTURE.

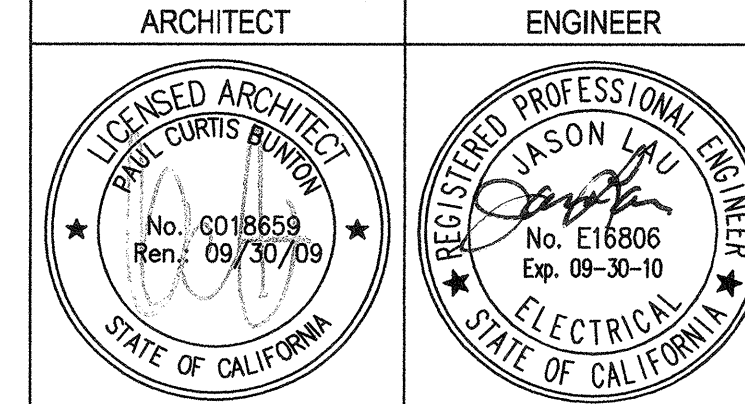


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INTERFACE ENGINEERING



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REVISIONS	DATE

DRAWING STATUS	DATE
<input type="checkbox"/> DSA PLAN CHECK	
<input type="checkbox"/> DSA BACK CHECK	
<input type="checkbox"/> BIDDING (BID #86593)	
<input type="checkbox"/> CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

01-110074

DATE: MAR 19 2009

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

ELECTRICAL SYMBOLS LIST,
GENERAL NOTES, ABBREV,
AND SHEET INDEX

Date: 01/22/09	Drawing Number
Scale: AS NOTED	E0.1
Project Number: 07013	

CERTIFICATE OF COMPLIANCE (Part 4 of 4) **LTG-1-C**

PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 8/28/2008

Designer:
This form is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for lighting systems. The designer is required to check the boxes by all acceptance tests that apply and list all equipment that require an acceptance test. If all equipment of a certain type requires a test, list the equipment description and the number of systems to be tested in parentheses. The N.J. number designates the Section in the Appendix of the Nonresidential ACM Manual that describes the test. Also indicate the person responsible for performing the tests (i.e. the installing contractor, design professional or an agent selected by the owner). Since this form will be part of the plans, completion of this section will allow the responsible party to budget for the scope of work appropriately.

Building Departments:
Before an occupancy permit is granted for a newly constructed building or space, or a new lighting system serving a building or space is operated for normal use, all control devices serving the building or space shall be certified as meeting the Acceptance Requirements for Code Compliance. In addition a Certificate of Acceptance, LTG-1-A, Forms shall be submitted to the building department that:

- A. Certifies plans, specifications, installation certificates, and operating and maintenance information meet the requirements of 10-103(b) and Title 24 Part 6.

Test Description **Test Performed By:**

LTG-2-A: Lighting Control Acceptance Document
- Occupancy Sensor Acceptance
- Manual Daylight Controls Acceptance
- Automatic Time Switch Control Acceptance
Equipment requiring acceptance testing _____

LTG-3-A: Automatic Daylighting Controls Acceptance Document
Equipment requiring acceptance testing _____

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) **LTG-4-C**

CONTROL CREDITS FOR CONDITIONED SPACES
PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 8/28/2008

A	B	C	D	E	F	G	H	I	J
ROOM # ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REF.	ROOM AREA (SF)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE	WATTS OF CONTROL LIGHTING	LIGHTING ADJUST. FACTOR	CONTROL CREDIT WATTS (H X I)
5-305	Occ Sensor - <= 250 sqft	'H'	118				124	0.20	25
5-351	Occ Sensor - <= 250 sqft	'H'	201				124	0.20	25
5-355	Occ Sensor - <= 250 sqft	'A'	181				744	0.20	149
5-356	Occ Sensor - <= 250 sqft	'A'	153				186	0.20	37
5-306	Occ Sensor - <= 250 sqft	'H'	199				124	0.20	25
5-307	Occ Sensor - <= 250 sqft	'H'	160				124	0.20	25
5-308	Occ Sensor - <= 250 sqft	'H'	72				62	0.20	12
5-309	Occ Sensor - <= 250 sqft	'H'	100				124	0.20	25
5-311	Occ Sensor - <= 250 sqft	'H'	107				124	0.20	25
5-312	Occ Sensor - <= 250 sqft	'H'	144				124	0.20	25
5-304	Occ Sensor - <= 250 sqft	'H'	206				124	0.20	25
5-313	Occ Sensor - <= 250 sqft	'H'	99				62	0.20	12
5-317B	Occ Sensor - <= 250 sqft	'E1'	125				64	0.20	13
5-220	Occ Sensor - <= 250 sqft	'H'	217				124	0.20	25
5-232	Occ Sensor - <= 250 sqft	'H'	189				124	0.20	25
5-230	Occ Sensor - <= 250 sqft	'H'	141				62	0.20	12
5-228A	Occ Sensor - <= 250 sqft	'H'	165				124	0.20	25
5-228	Occ Sensor - <= 250 sqft	'H'	123				124	0.20	25
5-227B	Occ Sensor - <= 250 sqft	'H'	103				62	0.20	12
6-105	Occ Sensor - <= 250 sqft	'H'	235				124	0.20	25

1) From Equation 146-A
2) From Table 146-A

PAGE TOTAL: 57.1

BUILDING TOTAL: 1,875

Enter in LTG-2-C: Lighting Control Credit

INDOOR LIGHTING SCHEDULE (Part 1 of 2) **LTG-2-C**

PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 8/28/2008

INSTALLED LIGHTING POWER FOR CONDITIONED SPACES

Luminaire	Lamps/Ballasts			Installed Watts					
	C	D	F	F	G	H	J		
Name	Type	Number of Luminaires	Watts per Lamp	Number of Ballasts per Luminaire	Watts per Ballast	CEC Default Watts (Yes/No)	Number of Luminaires	Installed Watts (Watts (H X I))	
'A'	(3) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	3	32	1.0	93.0	X	128	11,904
'A1'	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X	23	1,426
'B'	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X	55	3,410
'C'	(1) 26w Compact Fluorescent Triple 4 Pin Elec	CFTR26W/GX24q-3	1	26	1.0	28.0	X	38	1,064
'D'	(4) 42w Compact Fluor Trip/Quad 4pin Elec	CFTR42W/GX24q-4	4	42	1.0	188.0	X	9	1,692
'E'	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X	18	1,116
'E1'	(1) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	1	32	1.0	32.0	X	11	352
'F'	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X	20	1,240
'G'	(1) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	1	32	1.0	32.0	X	12	384
'H'	(2) 4 ft Fluorescent T8 Rapid Start Elec	F32T8	2	32	1.0	62.0	X	34	2,108
'K'	45w per ft Track Light	Track Lights	1	45		45.0	X	144	6,480
(E)	(1) 4 ft Fluorescent T8 Energy Savings Elec	F32T8	1	30	1.0	29.0	X	186	5,394

PAGE TOTAL: 36,570

BUILDING TOTAL (sum of all pages): 36,570

PORTABLE LIGHTING (From LTG-3-C): 0

CONTROL CREDIT (From LTG-4-C): 1,875

ADJUSTED ACTUAL WATTS: 34,695

INDOOR LIGHTING POWER ALLOWANCE **LTG-5-C**

PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 1/21/2009

ALLOWED LIGHTING POWER (Choose One Method)

COMPLETE BUILDING METHOD - CONDITIONED SPACES

BUILDING CATEGORY (From Section 146 Table 146-B)

WATTS PER SF: _____ COMPLETE BLDG. AREA: _____ ALLOWED WATTS: _____

AREA CATEGORY METHOD - CONDITIONED SPACES

AREA CATEGORY (From Section 146 Table 146-C)

WATTS PER SF: 1.60 AREA (SF): 5,180 ALLOWED WATTS: 8,288

Kitchen, Food Preparation: 0.60 8,398 5,039

Corridor/Restroom/Support: 0.70 1,818 1,273

Electrical, Mechanical Room: 1.50 2,145 3,218

Lobby, Main Entry: 1.20 7,871 9,445

Classroom, Lecture, Training: 1.40 4,119 5,767

Convention/Conference/Meeting: 1.20 5,215 6,258

Office: _____

PAGE TOTAL: 34,746 39,287

BUILDING TOTAL: 34,746 39,287

TAILORPED METHOD - CONDITIONED SPACES

TOTAL ALLOWED WATTS (From LTG-6-C or from computer run): 0

UNCONDITIONED SPACES

Complete Building and Area Category Methods Category (From Section 146 Table 146-B&C)

WATTS PER SF: _____ AREA (SF): _____ ALLOWED WATTS: _____

PAGE TOTAL: 0 0

BUILDING TOTAL: 0 0

TAILORPED METHOD - UNCONDITIONED SPACES

TOTAL UNCONDITIONED SPACES ALLOWED WATTS (From LTG-5-C and LTG-6-C): 0

LIGHTING CONTROLS CREDIT WORKSHEET (Part 1 of 2) **LTG-4-C**

CONTROL CREDITS FOR CONDITIONED SPACES

PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 8/28/2008

A	B	C	D	E	F	G	H	I	J
ROOM # ZONE ID CONDITIONED AREAS	LIGHTING CONTROL DESCRIPTION	PLAN REF.	ROOM AREA (SF)	WINDOW WALL RATIO	GLAZING VLT	SKYLIGHT EFFECTIVE APERTURE	WATTS OF CONTROL LIGHTING	LIGHTING ADJUST. FACTOR	CONTROL CREDIT WATTS (H X I)
5-352	Occ Sensor - <= 250 sqft	'B'	96				62	0.20	12
5-310N	Occ Sensor - <= 250 sqft	'B'	130				124	0.20	25
5-310S	Occ Sensor - <= 250 sqft	'B'	89				124	0.20	25
5-315	Occ Sensor - <= 250 sqft	'C'	71				28	0.20	6
5-302	Occ Sensor - <= 250 sqft	'E1'	47				32	0.20	6
5-342	Occ Sensor - <= 250 sqft	'E1'	47				32	0.20	6
5-314	Occ Sensor - <= 250 sqft	'C'	57				28	0.20	6
5-316	Occ Sensor - <= 250 sqft	'C'	61				28	0.20	6
5-203	Occ Sensor - <= 250 sqft	'B'	200				248	0.20	50
5-201N (CORR E)	Occ Sensor - <= 250 sqft	'B'	209				124	0.20	25
5-213	Occ Sensor - <= 250 sqft	'E1'	57				32	0.20	6
5-231	Occ Sensor - <= 250 sqft	'E1'	52				32	0.20	6
5-229	Occ Sensor - <= 250 sqft	'H'	74				62	0.20	12
5-203	Occ Sensor - <= 250 sqft	'E1'	32				32	0.20	6
5-208	Occ Sensor - <= 250 sqft	'C'	32				896	0.20	179
5-210	Occ Sensor - <= 250 sqft	'G'	241				64	0.20	13
5-210	Occ Sensor - <= 250 sqft	'F'	241				186	0.20	37
5-121A	Occ Sensor - <= 250 sqft	'C'	38				28	0.20	6
5-120	Occ Sensor - <= 250 sqft	'E1'	55				32	0.20	6
6-105A	Occ Sensor - <= 250 sqft	'E'	160				124	0.20	25
5-353	Occ Sensor - <= 250 sqft	'E1'	99				32	0.20	6
5-352A	Occ Sensor - <= 250 sqft	'E1'	244				64	0.20	13
5-EL-N	Occ Sensor - <= 250 sqft	'E'	59				62	0.20	12
5-111	Occ Sensor - <= 250 sqft	'E'	54				62	0.20	12
5-102A	Occ Sensor - <= 250 sqft	'E'	179				124	0.20	25
5-102	Occ Sensor - <= 250 sqft	'E'	152				124	0.20	25
5-104	Occ Sensor - <= 250 sqft	'E'	127				124	0.20	25
6-104	Occ Sensor - <= 250 sqft	'E'	177				124	0.20	25
6-103	Window Daylighting - 50%	'A'	1,022				1,395	0.50	698

PAGE TOTAL: 1,304

BUILDING TOTAL: 1,875

- 1) From Equation 146-A
- 2) From Table 146-A

Enter in LTG-2-C: Lighting Control Credit

LIGHTING MANDATORY MEASURES **LTG-MM**

PROJECT NAME: Canada Building 5 & 6 Renovations DATE: 8/28/2008

DESCRIPTION	Designer	Enforcement
<input type="checkbox"/> 131(d) For every floor, all interior lighting systems shall be equipped with a separate automatic control to shut off the lighting. This automatic control shall meet the requirements of Section 119 and may be an occupancy sensor, automatic time switch, or other device capable of automatically shutting off the lighting.	N/A	
<input type="checkbox"/> 131(d)2 Override for Building Lighting Shut-off: The automatic building shut-off system is provided with a manual, accessible override switch in sight of the lights. The area of override is not to exceed 5,000 square feet.	N/A	
<input checked="" type="checkbox"/> 119(h) Automatic Control Devices Certified: All automatic control devices specified are certified, all alternate equipment shall be certified and installed as directed by the manufacturer.		
<input checked="" type="checkbox"/> 111 Fluorescent Ballast and Luminaires Certified: All fluorescent fixtures specified for the project are certified and listed in the Directory. All installed fixtures shall be certified.		
<input checked="" type="checkbox"/> 132 Tandem Wiring for One and Three Lamp Fluorescent Fixtures: All one and three lamp fluorescent fixtures are tandem wired with two lamp ballasts where required by Standards Section 132; or all one and three lamp fluorescent fixtures are specified with electronic high-frequency ballasts and are exempt from tandem wiring requirements.		
<input checked="" type="checkbox"/> 131(a) Individual Room/Area Controls: Each room and area in this building is equipped with a separate switch or occupancy sensor device for each area with floor-to-ceiling walls.		
<input checked="" type="checkbox"/> 131(b) Uniform Reduction for Individual Rooms: All rooms and areas greater than 100 square feet and more than 0.8 watts per square foot of lighting load shall be controlled with bi-level switching for uniform reduction of lighting within the room.		
<input type="checkbox"/> 131(c) Daylight Area Control: All rooms with windows and skylights that are greater than 250 square feet and that allow for the effective use of daylight in the area shall have 50% of the lamps in each daylight area controlled by a separate switch; or the effective use of daylight cannot be accomplished because the windows are continuously shaded by a building on the adjacent lot. Diagram of shading during different times of the year is included on plans.		
<input type="checkbox"/> 131(e) Display Lighting: Display lighting shall be separately switched on circuits that are 20 amps or less.	N/A	



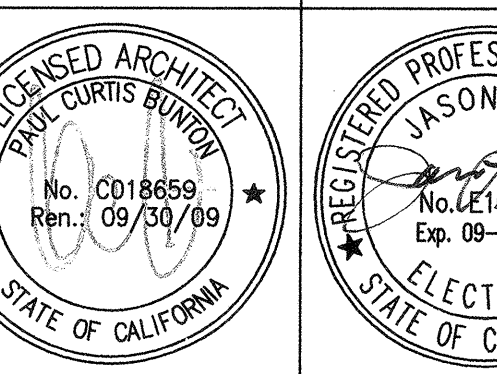
architecture
planning
interiors

Bunton Clifford Associates, Inc.
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PROJECT CONTACT: 2007-0731 Valeria Torres

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ARCHITECT: ENGINEER



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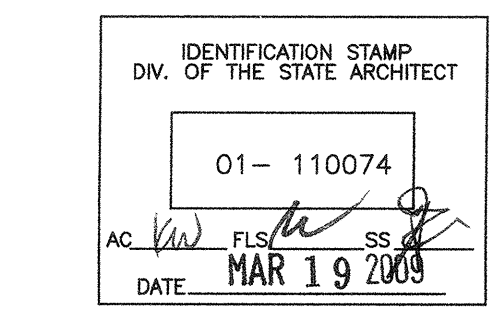
REVISION HISTORY

REVISION	DATE

DATE

- DSA PLAN CHECK
- DSA BACK-CHECK
- BIDDING (BD 886563)
- CONSTRUCTION

FILE NO. 41-C1



BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

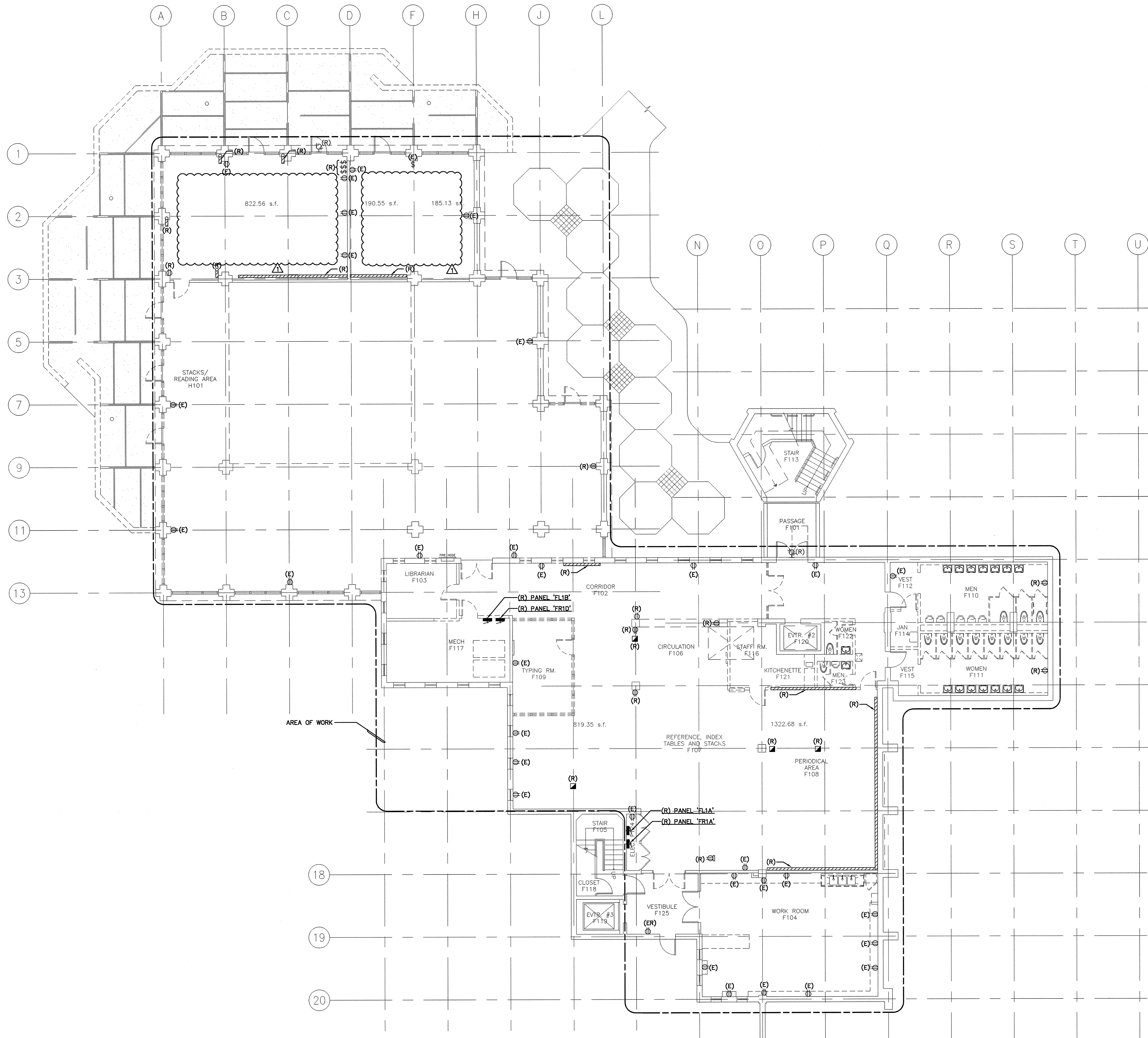
TITLE 24 CALCULATIONS

Date: 01/22/09 Drawing Number:

Scale: AS NOTED

Project Number: 07013

E0.3



1 FIRST FLOOR DEMOLITION PLAN - ELECTRICAL
 0 4' 8' 16'
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. COORDINATE DEMOLITION WORK WITH ARCHITECT AND BUILDING OWNER PRIOR TO COMMENCEMENT OF WORK.
- B. DEMOLISH EXISTING LUMINAIRES, RECEPTACLES, VOICE/DATA OUTLETS, SWITCHES, OCCUPANCY SENSORS, FEEDERS, ETC., AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. REUSE SPARE CIRCUITS AS MUCH AS POSSIBLE FOR NEW WORK. COORDINATE AND SEQUENCE DEMOLITION WORK WITH PROVISIONS OF CONSTRUCTION DOCUMENT DIVISIONS.
- C. REMOVE EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO CONDITIONS INDICATED IN SUCH.
- D. REMOVE ELECTRICAL MATERIALS MOUNTED IN OR ON WALLS AND CEILING TO BE REMOVED AS INDICATED IN ARCHITECTURAL CONSTRUCTION DOCUMENTS.
- E. MAINTAIN IN OPERATION EXISTING SYSTEMS NOT INDICATED FOR REMOVAL IN CONSTRUCTION DOCUMENTS.
- F. OBTAIN COPY OF EXISTING AS-BUILT DRAWINGS PRIOR TO BID.
- G. WHERE REMOVAL OF A LUMINAIRE, OUTLET, WALL OR PORTION OF THE CIRCUIT INTERRUPTS EXISTING CONDUIT AND/OR CIRCUIT AND RESULTS IN LOSS OF CIRCUIT CONTINUITY, REROUTE, EXTEND AND RECONNECT REMAINING CONDUIT AND/OR CIRCUIT AS REQUIRED TO PROVIDE CONTINUITY OF THE CIRCUIT THAT REMAINS IN SERVICE TO LUMINAIRES AND EQUIPMENT.
- H. PROVIDE UPDATED PANEL SCHEDULES THAT IDENTIFY EXISTING CIRCUITS AND NUMBER OF SPARE CIRCUITS AVAILABLE UPON COMPLETION OF DEMOLITION WORK.
- I. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH DEMOLITION WORK. PROVIDE ADDITIONAL SPLICE BOXES, ETC., AS REQUIRED FOR COMPLETE AND PROPERLY OPERATING SYSTEM. REUSE IN PLACE EXISTING CONDUIT NOT REMOVED DURING DEMOLITION IF SIZED IN ACCORDANCE WITH LATEST EDITION OF THE C.E.C. (CALIFORNIA ELECTRICAL CODE) AND THOROUGHLY CLEANED AND SWABBED PRIOR TO PULLING NEW WIRES.
- J. WHERE DRAWINGS INDICATE EXISTING ELECTRICAL EQUIPMENT OR DEVICES TO BE RELOCATED AND/OR REUSED, REFURBISH THEM. THOROUGHLY CLEAN SUCH ITEMS. NOTIFY ARCHITECT OF ANY DEFECTS IN SUCH INSTALLATIONS. REPAIR ANY DAMAGE CAUSED BY DEMOLITION OR CONSTRUCTION PERFORMED UNDER THIS CONTRACT.
- K. EXISTING IN SLAB CONDUIT FEEDING DEMOLISHED DEVICES TO BE ABANDONED. REMOVE WIRING BACK TO SOURCE. CUT AND CAP CONDUIT FLUSH WITH FLOOR AND PATCH SURFACE. DO NOT EXTEND STUBS ABOVE FLOOR. FINISHED SURFACE TO BE FLUSH WITH SURROUNDING AREA.



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PROJECT 2007-0731
 CONTRACT Valeria Torres

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ARCHITECT VALERIA TORRES No. C019829 Ren.: 09/20/11 STATE OF CALIFORNIA	ENGINEER JASON LAU No. E16806 Ren.: 09-20-11 STATE OF CALIFORNIA
---	--

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REMARKS	DATE
▲ ADDENDUM NO. 1	09/18/09
▲	
▲	
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DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #66259)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

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 DIV. OF THE STATE ARCHITECT

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AC. FLS. SS.
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BUILDINGS 5 & 6 RENOVATIONS
 San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
 Redwood City, CA 94061

FIRST FLOOR
 DEMOLITION PLAN
 - ELECTRICAL

Date	08/29/08	Drawing Number	ED1.1
Scale	AS NOTED	Project Number	07013

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 www.interfaceengineering.com

ARCHITECT: JASON LACROIX
 ENGINEER: JASON LACROIX

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ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
DISA PLAN CHECK	08/29/08
DISA BACK CHECK	01/22/09
BIDDING (RIP #0529)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1

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**BUILDINGS 5 & 6
 RENOVATIONS**

San Mateo County Community
 College District

BID ADDENDA

CAÑADA COLLEGE
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SECOND FLOOR
 DEMOLITION PLAN
 - ELECTRICAL

Date 08/29/08
 Scale AS NOTED
 Project Number 07013

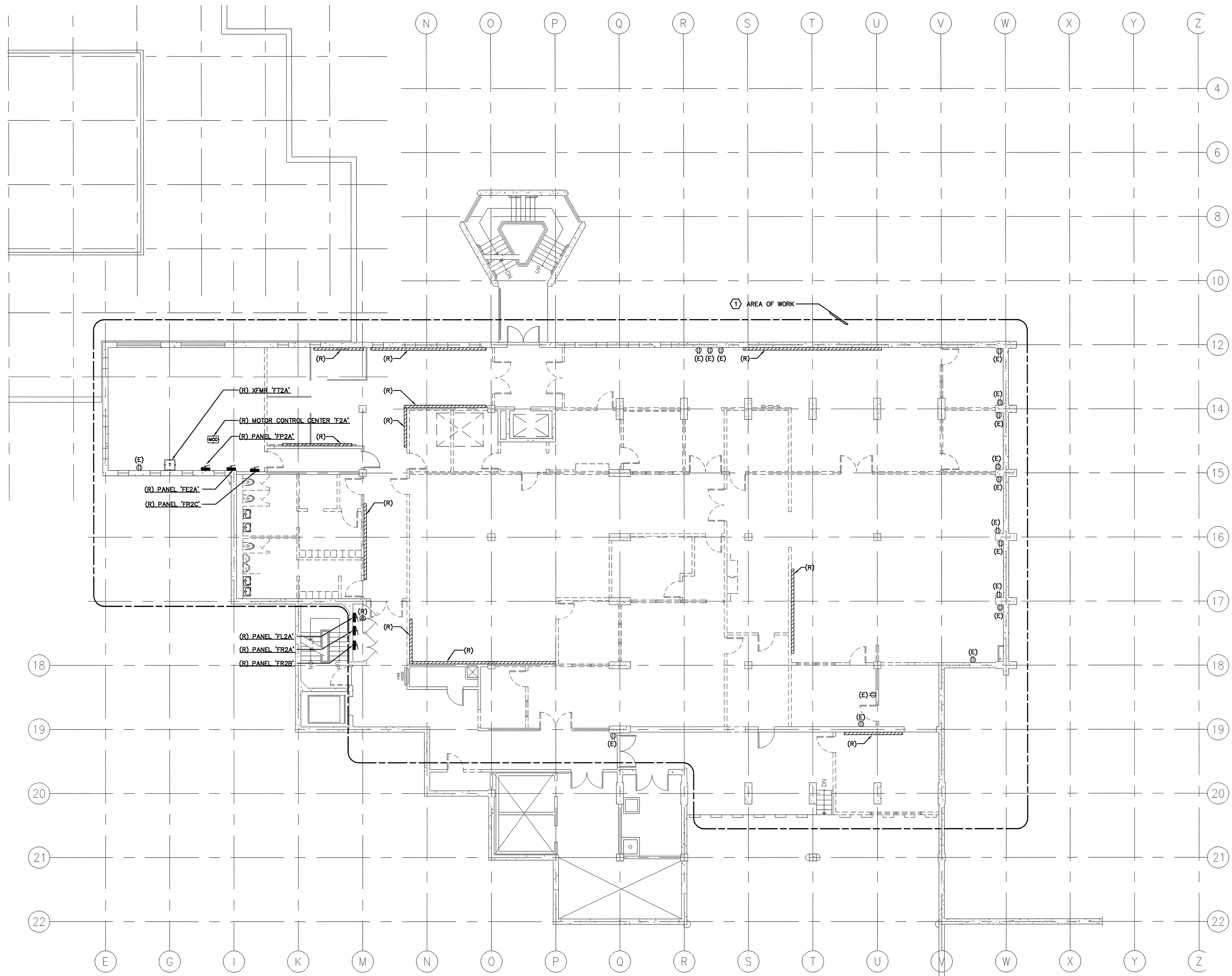
Drawing Number **ED1.2**

GENERAL SHEET NOTES

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SHEET KEYNOTES

- 1. REMOVE ALL EXISTING LUMINAIRES, SWITCHES, WIRING, ETC., WITHIN THIS AREA.



1 SECOND FLOOR DEMOLITION PLAN - ELECTRICAL

0 4' 8' 16'

SCALE: 1/8"=1'-0"

PROJECT 2007-0731
CONTACT Valeria Torres

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No. C013859
Ren: 09/30/11

ENGINEER: **REGISTERED PROFESSIONAL ELECTRICAL ENGINEER**
No. E16808
Ren: 09/30/11

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REVISION	DATE
1	08/29/08

DRAWING STATUS	DATE
● DISA PLAN CHECK	08/29/08
● DISA BACK CHECK	01/22/09
● BIDDING (BID #0609)	08/18/08
○ CONSTRUCTION	

FILE NO. 41-C1

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**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
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THIRD FLOOR
DEMOLITION PLAN
- ELECTRICAL

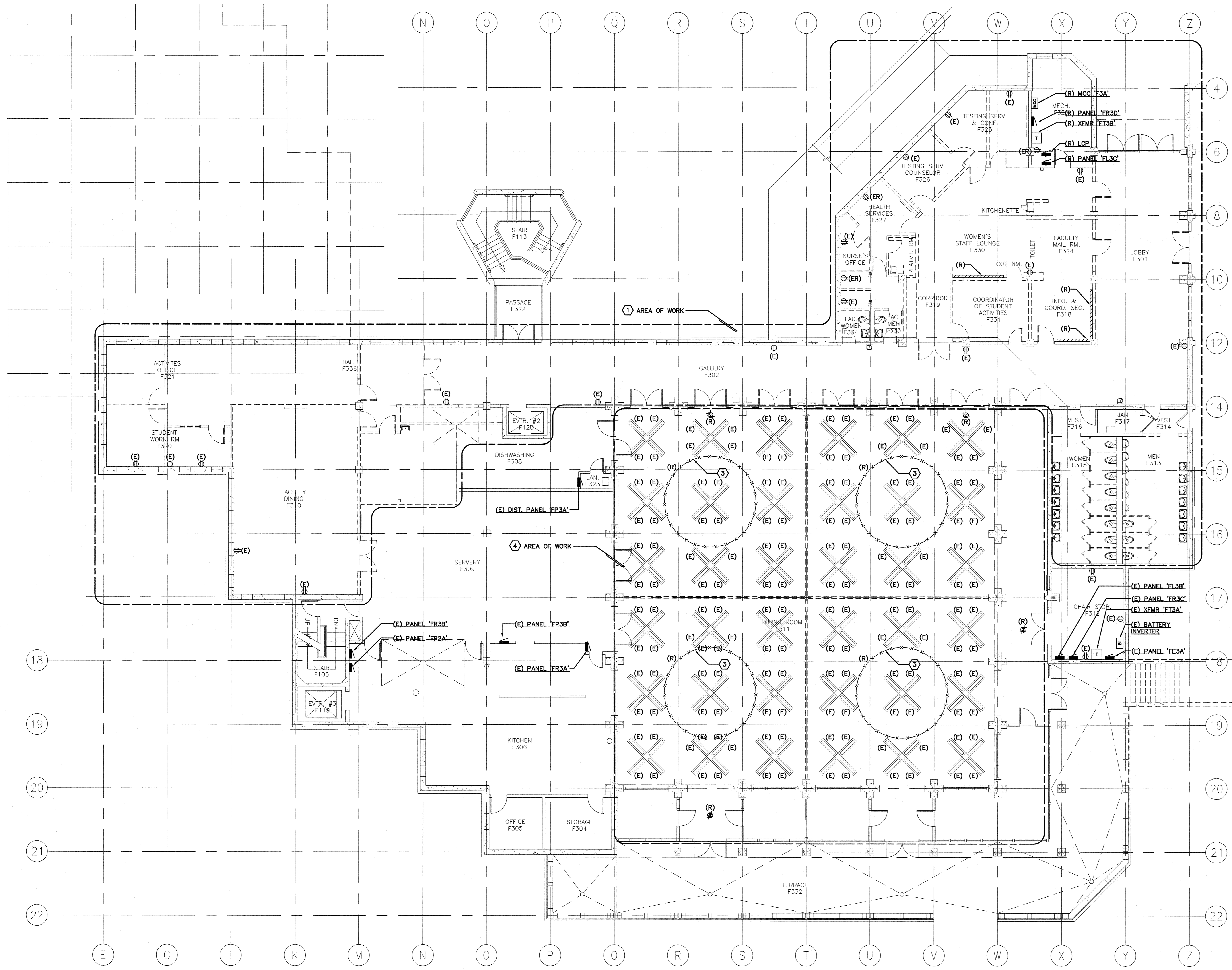
Date	Drawing Number
08/29/08	ED1.3
Scale	AS NOTED
Project Number	07013

GENERAL SHEET NOTES

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- ENSURE CONTINUOUS POWER WIRE IN BUILDING 8 DURING CONSTRUCTION. PROVIDE TEMPORARY POWER IF REQUIRED TO MAINTAIN ALL EQUIPMENT IN OPERATION INCLUDING COOLING.

SHEET KEYNOTES

- REMOVE ALL EXISTING LUMINAIRES, SWITCHES, WIRING, ETC., WITHIN THIS AREA.
- ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES TO REMAIN, UNLESS OTHERWISE NOTED.
- REMOVE EXISTING PENDANT LUMINAIRE.



1 THIRD FLOOR DEMOLITION PLAN - ELECTRICAL
SCALE: 1/8"=1'-0"

REMARKS	DATE
ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
● DSA PLAN CHECK	09/29/08
● DSA BACK CHECK	01/22/09
● BIDDING (PID #065624)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

GENERATION STAMP
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01- 110074

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DATE

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

FIRST FLOOR PLAN
- LIGHTING

Date 08/29/08
Scale AS NOTED
Project Number 07013

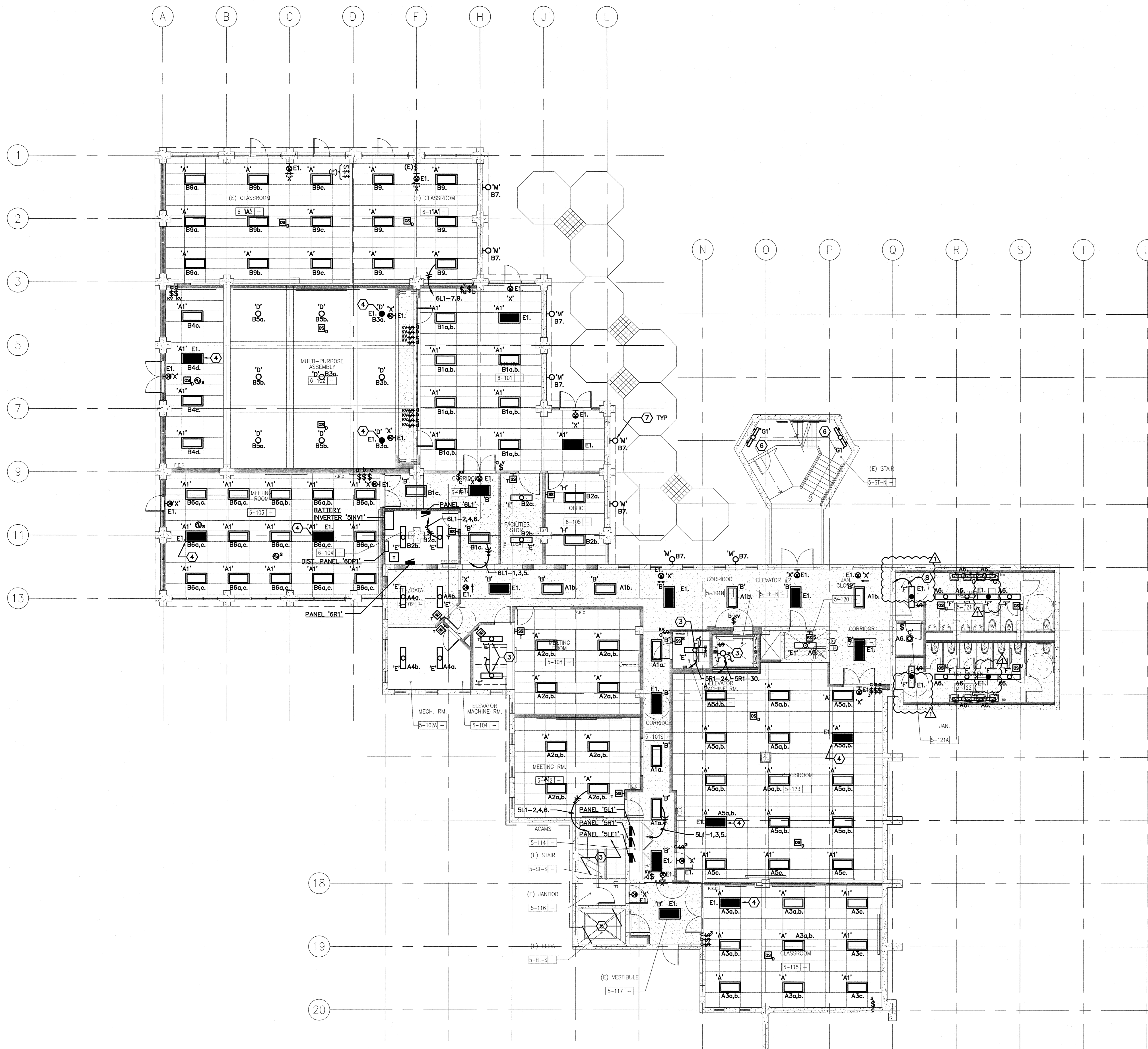
Drawing Number **E2.1**

GENERAL SHEET NOTES

- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.
- CIRCUITS SHOWN WITH PREFIX 'A' DENOTES CONNECTION TO PANEL 'SL1'.
- CIRCUITS SHOWN WITH PREFIX 'B' DENOTES CONNECTION TO PANEL 'BL1'.
- CIRCUITS SHOWN WITH PREFIX 'E' DENOTES CONNECTION TO PANEL 'SR1'.

SHEET KEYNOTES

- DISCONNECT (E) LUMINAIRE AND RECONNECT TO CIRCUIT AS SHOWN.
- NOT USED.
- LUMINAIRE AND RECEPTACLES THIS ROOM TO BE ON SAME DEDICATED CIRCUIT. DO NOT CONNECT LUMINAIRE TO LOAD SIDE OF GP RECEPTACLE.
- PROVIDE CONTROL RELAY, NINE 24 BLTC SERIES OR EQUAL, SO EMERGENCY LUMINAIRE WILL BE ENERGIZED IN THE EVENT OF POWER FAILURE, EVEN IF CONTROL SWITCH IS IN 'OFF' POSITION. LUMINAIRE SHALL BE DUAL CIRCUITED WITH EMERGENCY POWER FROM PANEL 'SR1'.
- INTERCEPT AND EXTEND EXISTING ELEVATOR PIT CIRCUIT AND CONNECT COMPLETE TO PANEL 'SR1' TO PLACE INTO SERVICE.
- INTERCEPT AND EXTEND EXISTING STAIRWAY LIGHTING CIRCUIT TO NEW LUMINAIRE.
- MOUNT LUMINAIRE AT 13'-4" AFF.
- HOMERUN TO BATTERY INVERTER 'SR1', CIRCUIT #1, LOCATED ON THE FIRST FLOOR.



1 FIRST FLOOR PLAN - LIGHTING

0 4' 8' 16'

SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.
- B. LUMINAIRES SHOWN ON THIS SHEET TO BE CIRCUITED TO PANEL 'SL2' UNLESS OTHERWISE NOTED.
- C. CIRCUITS WITH PREFIX 'E' DENOTES CONNECTION TO BATTERY INVERTER 'SINV3' LOCATED ON THE THIRD FLOOR.

SHEET KEYNOTES

- ① NO WORK WITHIN THIS AREA.
- ② PROVIDE CONTROL RELAY, NINE 24 BLTC SERIES OR EQUAL, SO EMERGENCY LUMINAIRE WILL BE ENERGIZED IN THE EVENT OF POWER FAILURE, EVEN IF CONTROL SWITCH IS IN 'OFF' POSITION. LUMINAIRES SHALL BE DIAL CIRCUITED WITH EMERGENCY POWER FROM BATTERY INVERTER 'SINV3'.
- ③ HOME RUN TO BATTERY INVERTER 'SINV3', CIRCUIT #1, LOCATED ON THE THIRD FLOOR.
- ④ INTERCEPT AND EXTEND EXISTING STAIRWAY LIGHTING CIRCUIT TO NEW LUMINAIRES.

PROJECT 2007-0731
CONTACT Valeria Torres

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ARCHITECT: JASON LAU
REGISTERED PROFESSIONAL ARCHITECT
No. E16806
Exp. 03-31-10
Ren.: 09/30/11

ENGINEER: JASON LAU
REGISTERED PROFESSIONAL ENGINEER
No. E16806
Exp. 03-31-10
Ren.: 09/30/11

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REMARKS	DATE
▲ ADDENDUM NO. 1	08/18/09
▲	
▲	
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DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #8568)	08/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DW. OF THE STATE ARCHITECT

01- 110074

AC. FLS. SS. DATE.

BUILDINGS 5 & 6 RENOVATIONS

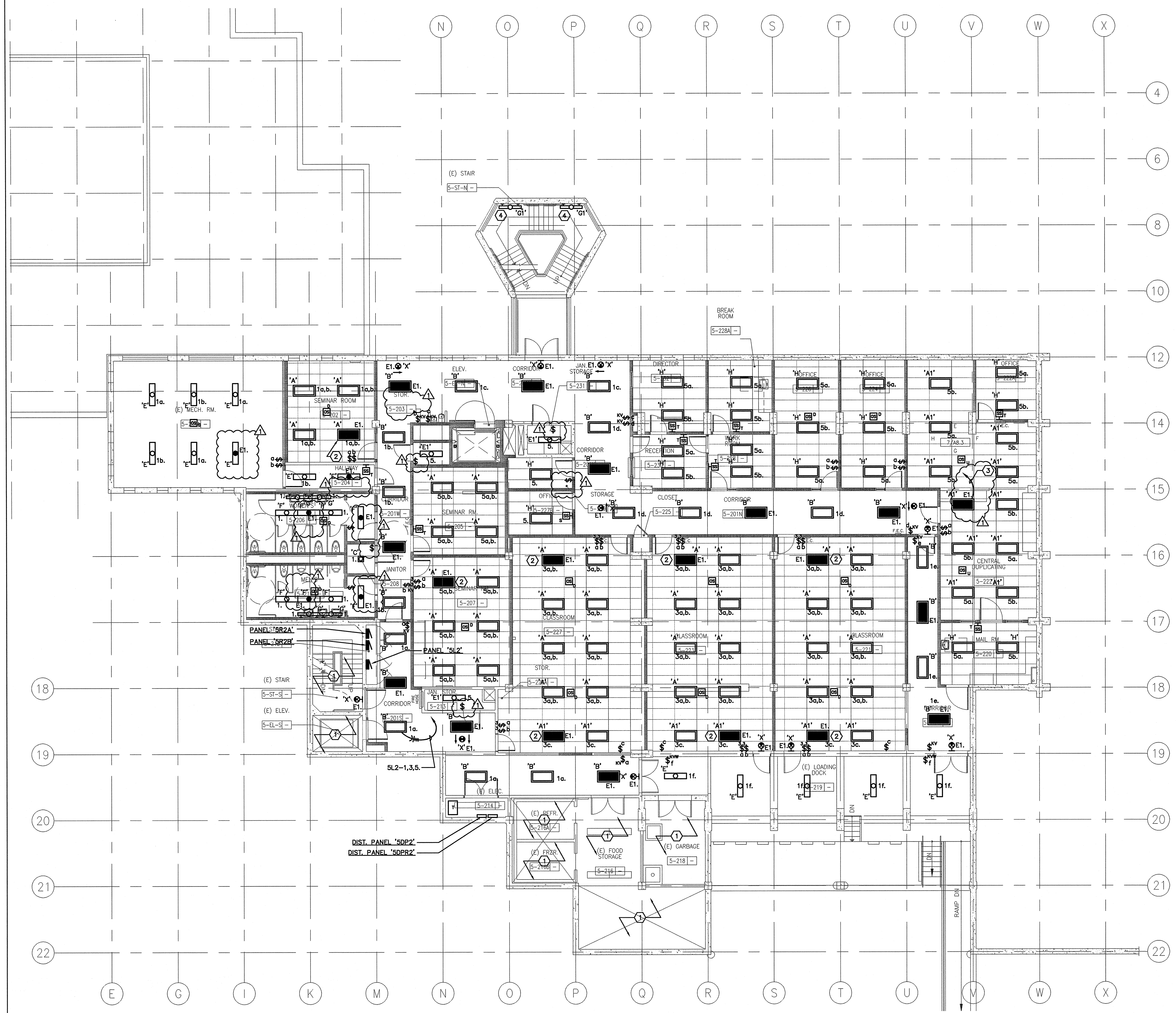
San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

SECOND FLOOR PLAN
- LIGHTING

Date	08/29/08	Drawing Number	E2.2
Scale	AS NOTED		
Project Number	07013		



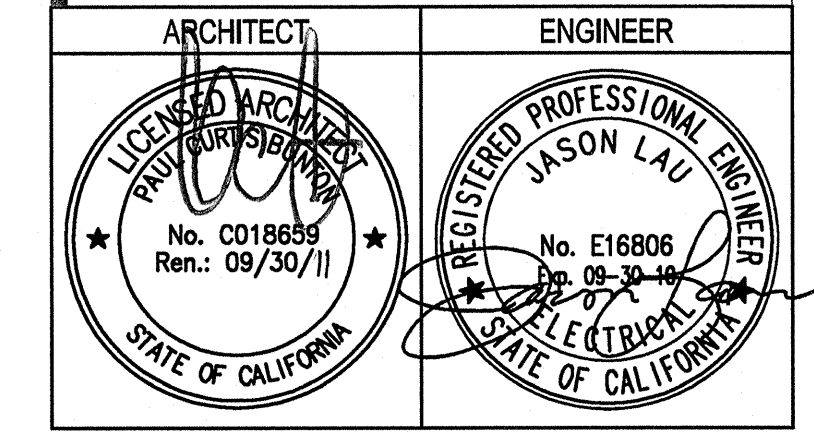
1 SECOND FLOOR PLAN - LIGHTING

0 4' 8' 16'

SCALE: 1/8"=1'-0"

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REMARKS	DATE
ADDENDUM NO. 1	08/18/08

DRAWING STATUS	DATE
● DESIGN CHECK	08/28/08
● DESIGN CHECK	01/22/09
● BIDDING (BID #28565)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1
 IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 01-110074
 AC FLS SS
 DATE

**BUILDINGS 5 & 6
 RENOVATIONS**
 San Mateo County Community
 College District

BID ADDENDA

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
 Redwood City, CA 94061

THIRD FLOOR PLAN
 - LIGHTING

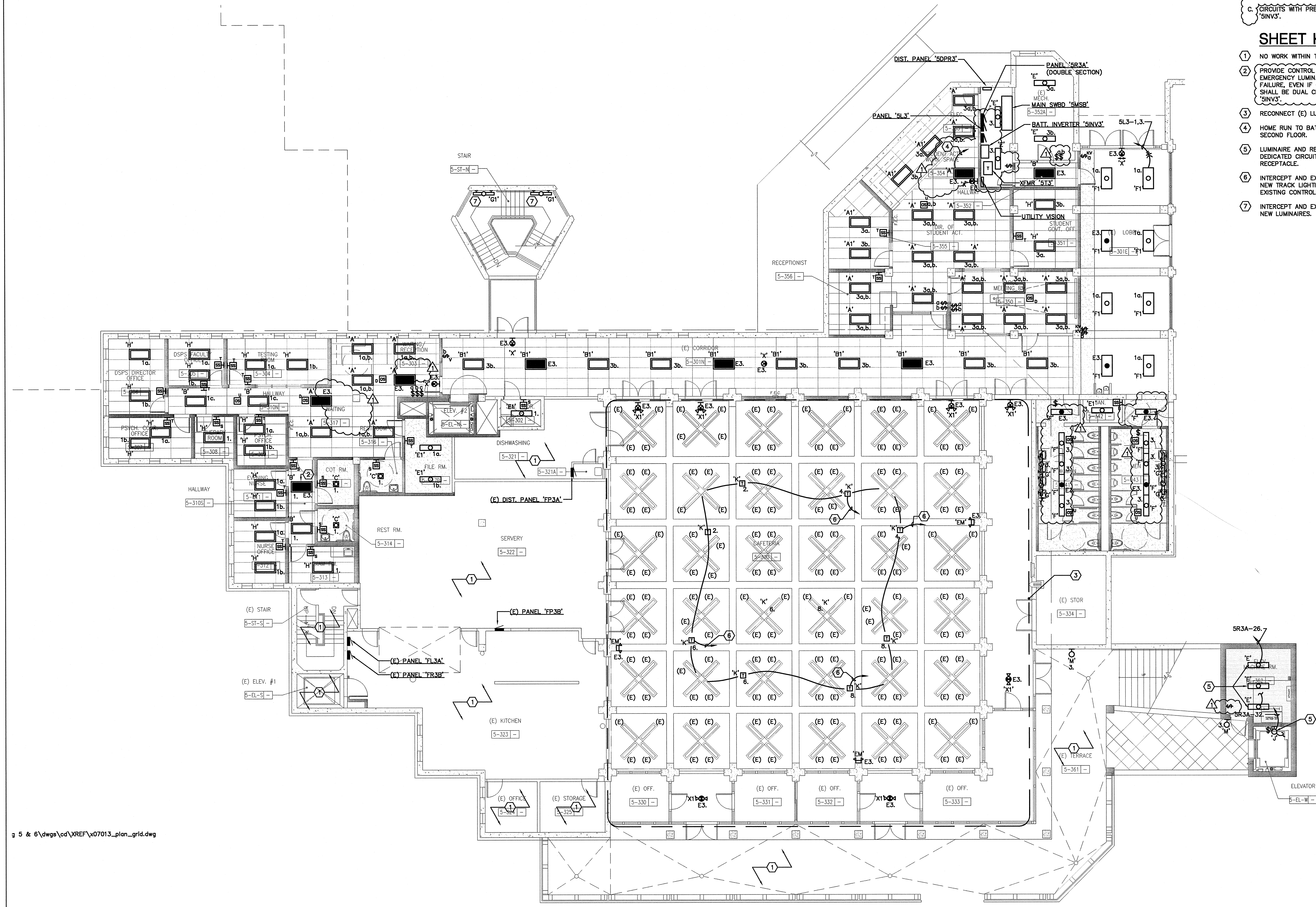
Date 08/29/08
 Drawing Number
 Scale AS NOTED
 Project Number 07013

GENERAL SHEET NOTES

- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.
- LUMINAIRES SHOWN ON THIS SHEET TO BE CIRCUITED TO PANEL 'SLC3' UNLESS OTHERWISE NOTED.
- CIRCUITS WITH PREFIX 'E' DENOTE CONNECTION TO BATTERY INVERTER 'SINV3'.

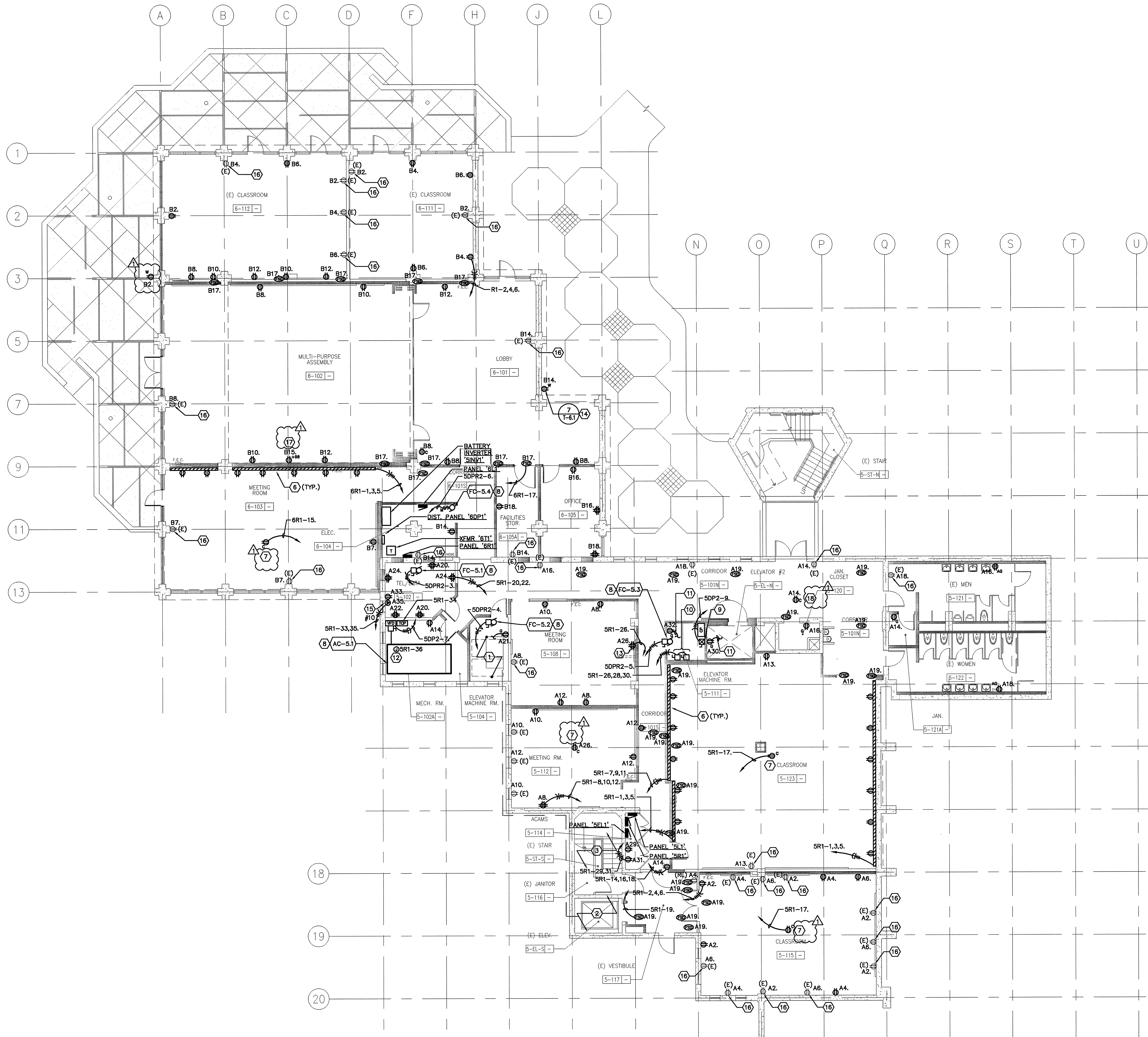
SHEET KEYNOTES

- NO WORK WITHIN THIS AREA.
- PROVIDE CONTROL RELAY, NINE 24 BLTC SERIES OR EQUAL, SO EMERGENCY LUMINAIRE WILL BE ENERGIZED IN THE EVENT OF POWER FAILURE, EVEN IF CONTROL SWITCH IS IN 'OFF' POSITION. LUMINAIRES SHALL BE DUAL CIRCUITED WITH EMERGENCY POWER FROM PANEL 'SINV3'.
- RECONNECT (E) LUMINAIRES TO NEW LIGHTING CONTROLS AS SHOWN.
- HOME RUN TO BATTERY INVERTER 'SINV3', CIRCUIT #3, LOCATED ON SECOND FLOOR.
- LUMINAIRE AND RECEPTACLES THIS ROOM TO BE ON SAME DEDICATED CIRCUIT. DO NOT CONNECT LUMINAIRE TO LOAD SIDE OF RECEPTACLE.
- INTERCEPT AND EXTEND EXISTING CIRCUITS FROM PANEL 'SR3C' TO NEW TRACK LIGHTING VIA LOW VOLTAGE TRANSFORMER. RE-USE EXISTING CONTROLS.
- INTERCEPT AND EXTEND EXISTING STAIRWAY LIGHTING CIRCUIT TO NEW LUMINAIRES.



1 THIRD FLOOR PLAN - LIGHTING
 0 4' 8' 16'
 SCALE: 1/8"=1'-0"

g 5 & 6\dwg\cd\XREF\07013_plan_grid.dwg



1 FIRST FLOOR PLAN - POWER
 0 4' 8' 16'
 SCALE: 1/8"=1'-0"

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- C. CIRCUITS WITH PREFIX 'A' DENOTES CONNECTION TO PANEL 'SR1'.
- D. CIRCUITS WITH PREFIX 'B' DENOTES CONNECTION TO PANEL 'BR1'.

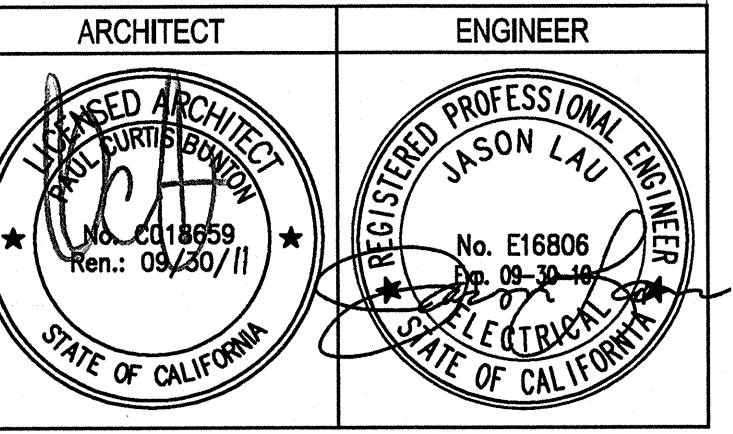
SHEET KEYNOTES

- ① RECONNECT EXISTING ELEVATOR AND ASSOCIATED CONTROLLER TO NEW DISTRIBUTION SYSTEM TO PLACE BACK INTO SERVICE. REFER TO 'SINGLE LINE DIAGRAM', SHEET E5.1 FOR MORE INFORMATION.
- ② RECONNECT EXISTING ELEVATOR PIT LIGHTING AND RECEPTACLE TO PANEL 'SR1'.
- ③ NO WORK WITHIN THIS AREA.
- ④ INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT COMPLETE TO PANEL 'SR1' TO PLACE INTO SERVICE.
- ⑤ INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT COMPLETE TO PANEL 'BR1' TO PLACE INTO SERVICE.
- ⑥ PROVIDE SURFACE RACEWAY AND RECEPTACLES PER DISTRICT SPACING REQUIREMENTS.
- ⑦ FOR CEILING MOUNT PROJECTOR.
- ⑧ REFER TO 'MECHANICAL EQUIPMENT CONNECTION SCHEDULE', SHEET E6.1 FOR MORE INFORMATION.
- ⑨ PROVIDE FEEDER AND ELEVATOR FUSED DISCONNECT SIZE PER ELEVATOR MANUFACTURER REQUIREMENTS. REFER TO 'SINGLE LINE DIAGRAM', SHEET E5.1 FOR MORE INFORMATION.
- ⑩ PROVIDE (2) 20A DISCONNECT FOR CONNECTION TO ELEVATOR CAB SERVING LIGHTING AND COMMON LOADS.
- ⑪ CONNECT RECEPTACLE TO LIGHTING CIRCUIT SHOWN ON SHEET E2.1.
- ⑫ PROVIDE JUNCTION BOX FOR 120V POWER TO DDC CONTROLLER.
- ⑬ FOR SMART BOARD. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO INSTALLATION.
- ⑭ COORDINATE REQUIREMENTS AND ROUGH-IN HEIGHT WITH TECHNOLOGY DRAWINGS.
- ⑮ PROVIDE LS-30R RECEPTACLE.
- ⑯ INTERCEPT AND EXTEND NEW CIRCUIT FROM PANEL AS SHOWN TO EXISTING RECEPTACLE OUTLET AND RECONNECT COMPLETE AS REQUIRED TO PLACE BACK INTO SERVICE.
- ⑰ FOR PROJECTOR.
- ⑱ FOR SECURITY CAMERA.



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REMARKS	DATE
ADDENDUM NO. 1	08/29/08

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/29/08
● DSA BACK CHECK	01/22/09
● BIDDING (RFD #88893)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1
 GENERATION STAMP
 DIV. OF THE STATE ARCHITECT
 01-110074
 AC FLS SS
 DATE

BUILDINGS 5 & 6 RENOVATIONS
 San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
 4200 Farm Hill Boulevard
 Redwood City, CA 94061

FIRST FLOOR PLAN - POWER

Date 08/29/08
 Drawing Number E3.1
 Scale AS NOTED
 Project Number 07013

PROJECT 2007-0731
CONTACT Valeria Torres

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ARCHITECT: JASON LAU
ENGINEER: JASON LAU

Professional Engineer Seal: No. E16806, Exp. 09/30/11

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REVISION HISTORY	REMARKS	DATE
1	ADDENDUM NO. 1	09/18/09

DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● BIDDING (BID #88393)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

GENERATION STAMP
DIV. OF THE STATE ARCHITECT

01-110074

AC: _____ FLS: _____ SS: _____
DATE: _____

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

SECOND FLOOR PLAN
- POWER

Date: 08/29/08
Scale: AS NOTED
Project Number: 07013

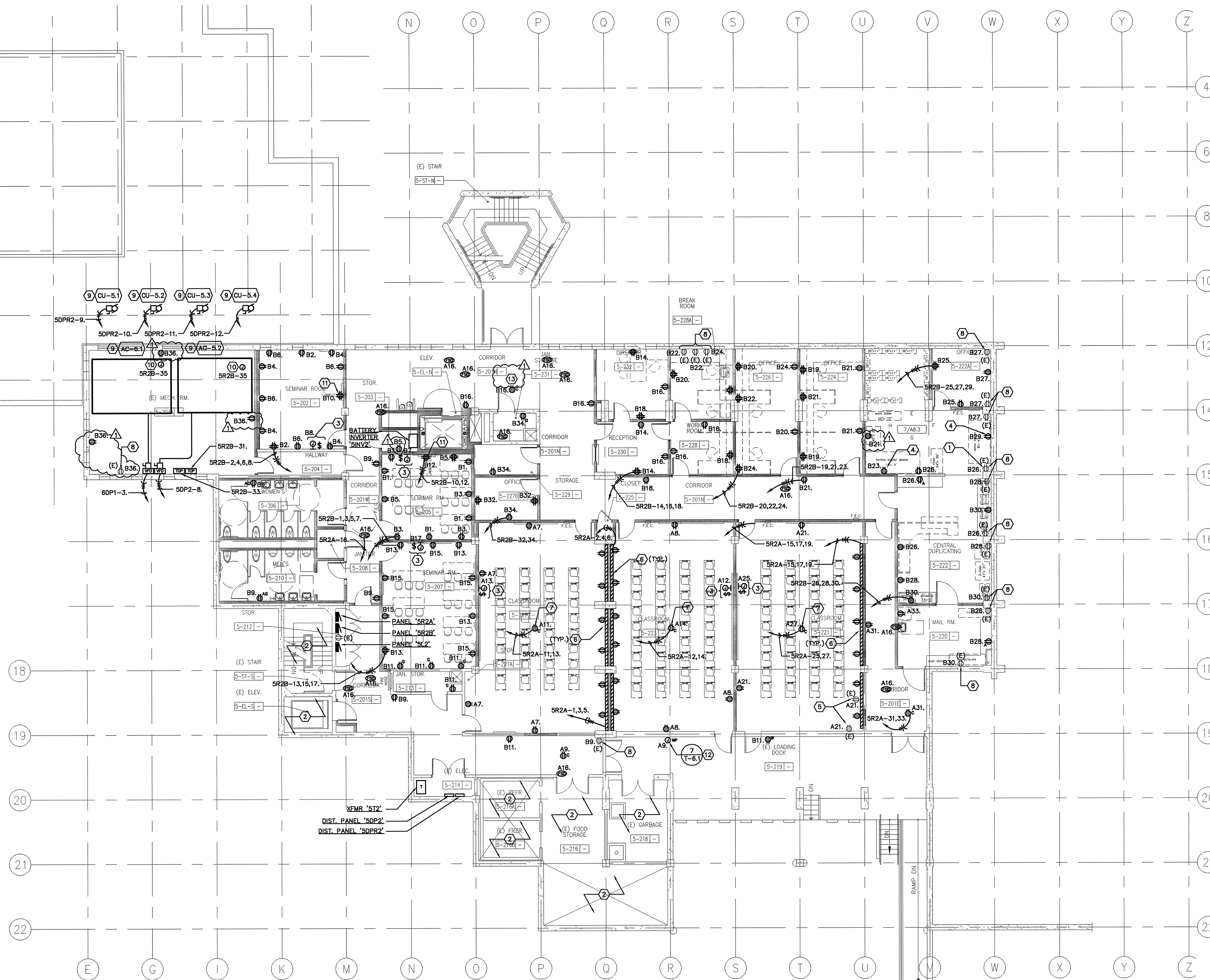
Drawing Number: **E3.2**

GENERAL SHEET NOTES

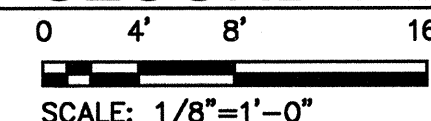
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- CIRCUITS WITH PREFIX 'A' DENOTES CONNECTION TO PANEL 'SR2A'.
- CIRCUITS WITH PREFIX 'B' DENOTES CONNECTION TO PANEL 'SR2B'.

SHEET KEYNOTES

- DISCONNECT AND RECONNECT EXISTING RECEPTACLE TO NEW DEDICATED CIRCUIT.
- NO WORK WITHIN THIS AREA.
- PROVIDE JUNCTION BOX AND TOGGLE SWITCH FOR MOTORIZED PROJECTOR SCREEN. VERIFY POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- VERIFY RECEPTACLE TYPE PRIOR TO ROUGH-IN.
- INTERCEPT AND EXTEND EXISTING NEW CIRCUIT FROM PANEL 'SR2A' TO EXISTING RECEPTACLE OUTLET AND RECONNECT COMPLETE TO PLACE BACK INTO SERVICE.
- PROVIDE SURFACE RACEWAY AND RECEPTACLES PER DISTRICT SPACING REQUIREMENTS.
- FOR CEILING MOUNT PROJECTOR.
- INTERCEPT AND EXTEND EXISTING NEW CIRCUIT FROM PANEL 'SR2B' TO EXISTING RECEPTACLE OUTLET AND RECONNECT COMPLETE TO PLACE BACK INTO SERVICE.
- REFER TO 'MECHANICAL EQUIPMENT CONNECTION SCHEDULE', SHEET E6.1 FOR MORE INFORMATION.
- PROVIDE JUNCTION BOX FOR 120V POWER TO DDC CONTROLLER.
- FOR SMART BOARD. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO INSTALLATION.
- COORDINATE REQUIREMENTS AND ROUGH-IN HEIGHT WITH TECHNOLOGY DRAWINGS.
- FOR SECURITY CAMERA.



1 SECOND FLOOR PLAN - POWER



REVISIONS	DATE
ADDENDUM NO. 1	08/29/08

DRAWING STATUS	DATE
DSA PLAN CHECK	08/29/08
DSA BACK CHECK	01/22/09
BIDDING (BID #68999)	09/18/09
CONSTRUCTION	

FILE NO. 41-C1
GENERATION STAMP
01-110074
AC. FLS. SS.
DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

THIRD FLOOR PLAN
- POWER

Date
08/29/08
Scale
AS NOTED
Project Number
07013

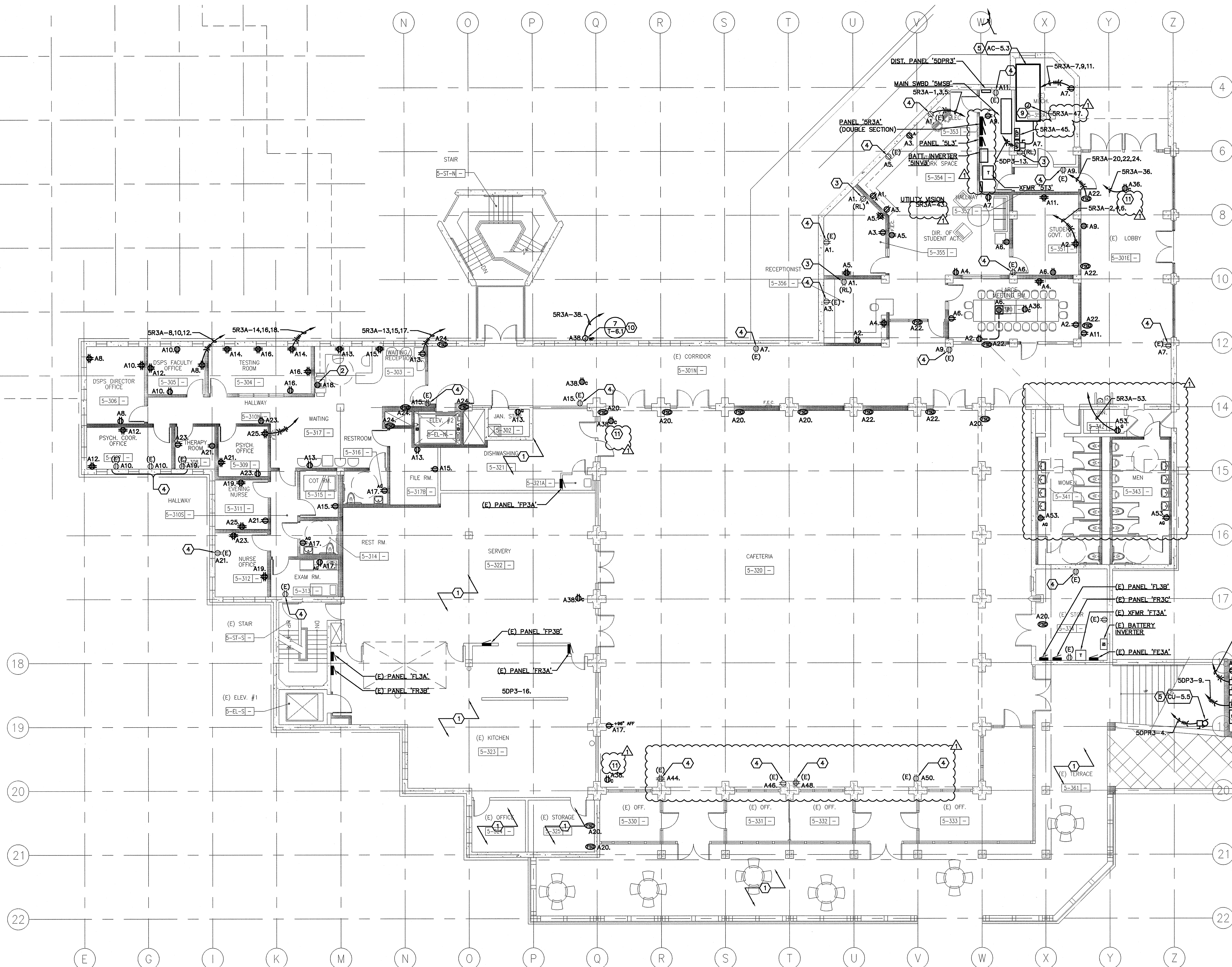
Drawing Number
E3.3

GENERAL SHEET NOTES

- A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES, VOICE/DATA OUTLETS AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
- C. CIRCUITS WITH PREFIX 'A' DENOTES CONNECTION TO PANEL 'SR3A'.

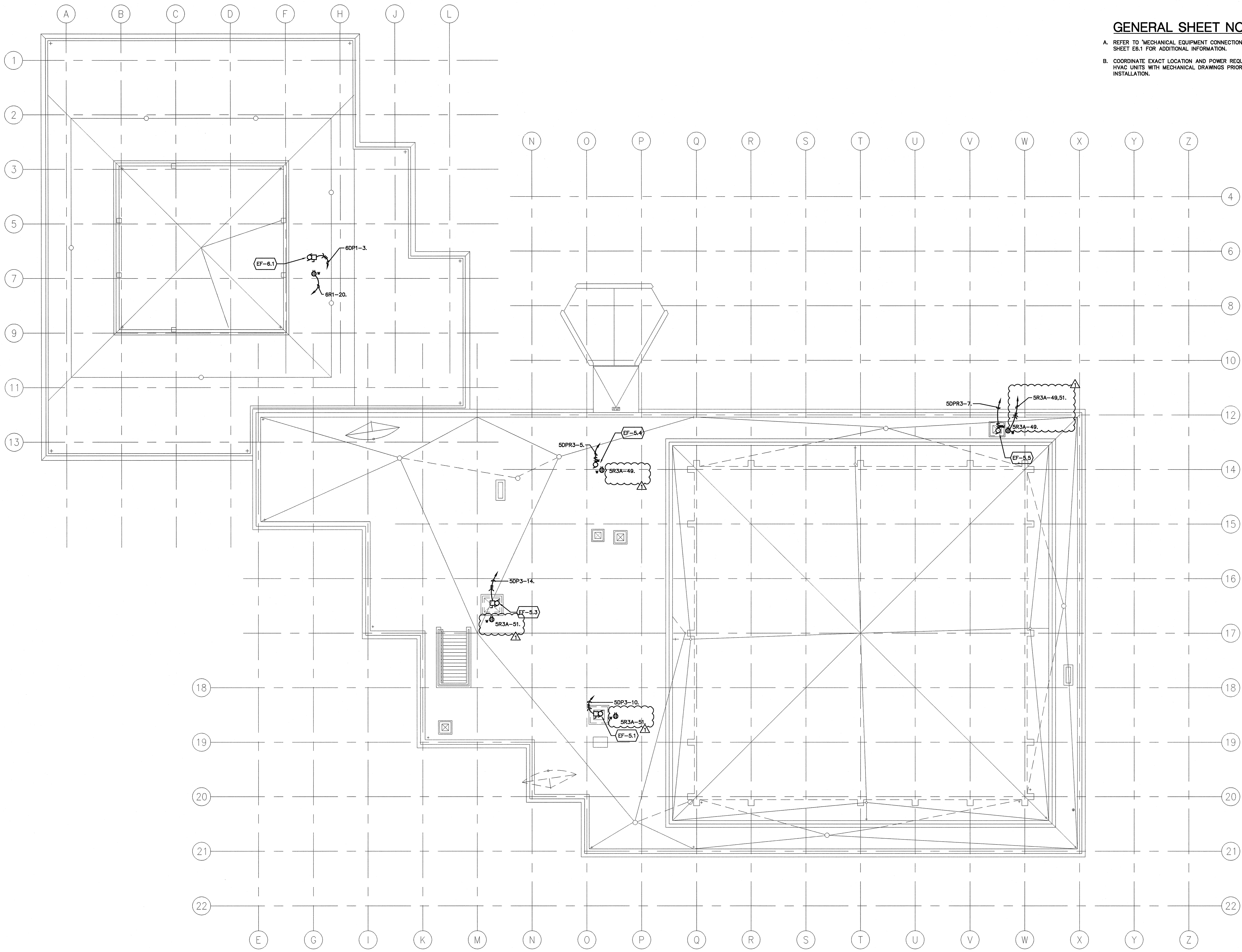
SHEET KEYNOTES

- 1 NO WORK WITHIN THIS AREA.
- 2 CONNECT NEW RECEPTACLE TO DEDICATED CIRCUIT.
- 3 NEW LOCATION OF RELOCATED RECEPTACLE. INTERCEPT AND EXTEND NEW CIRCUIT FROM PANEL 'SR3A' AND RECONNECT COMPLETE AS REQUIRED TO PLACE BACK INTO SERVICE.
- 4 INTERCEPT AND EXTEND EXISTING CIRCUIT AND CONNECT COMPLETE TO PANEL 'SR3A'.
- 5 REFER TO 'MECHANICAL EQUIPMENT CONNECTION SCHEDULE', SHEET E6.1 FOR MORE INFORMATION.
- 6 PROVIDE FEEDER AND ELEVATOR FUSED DISCONNECT SIZE PER ELEVATOR MANUFACTURER REQUIREMENTS. REFER TO 'SINGLE LINE DIAGRAM', SHEET E5.1 FOR MORE INFORMATION.
- 7 PROVIDE (2) 20A DISCONNECT FOR CONNECTION TO ELEVATOR CAB SERVING LIGHTING AND COMMON LOADS.
- 8 CONNECT RECEPTACLE TO LIGHTING CIRCUIT SHOWN ON E2.3.
- 9 PROVIDE JUNCTION BOX FOR 120V POWER TO DDC CONTROLLER.
- 10 COORDINATE REQUIREMENTS AND ROUGH-IN HEIGHT WITH TECHNOLOGY DRAWINGS.
- 11 FOR SECURITY CAMERA.



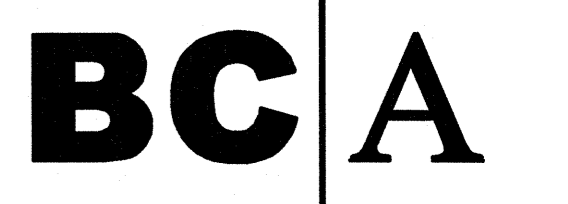
1 THIRD FLOOR PLAN - POWER

0 4' 8' 16'
SCALE: 1/8"=1'-0"



GENERAL SHEET NOTES

- A. REFER TO 'MECHANICAL EQUIPMENT CONNECTION SCHEDULE', SHEET E6.1 FOR ADDITIONAL INFORMATION.
- B. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS OF HVAC UNITS WITH MECHANICAL DRAWINGS PRIOR TO INSTALLATION.



architecture
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ARCHITECT	ENGINEER

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REMARKS	DATE
▲ ADDENDUM NO. 1	09/18/09
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DRAWING STATUS	DATE
● DSA PLAN CHECK	08/28/08
● DSA BACK CHECK	01/22/09
● R/CHECK (AND REVISION)	09/18/09
○ CONSTRUCTION	

FILE NO. 41-C1

01-110074

AC FLS SS

DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

ROOF PLAN
- POWER

1 ROOF PLAN - POWER

0 4' 8' 16'

SCALE: 1/8"=1'-0"

Date 08/29/08
Scale AS NOTED
Project Number 07013

Drawing Number **E3.4**

PROJECT 2007-0731
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ARCHITECT INTERFACE ENGINEERING

ARCHITECT ENGINEER

REGISTERED PROFESSIONAL ARCHITECT
No. C019559
Ren.: 09/30/11

REGISTERED PROFESSIONAL ENGINEER
No. E16806
Ren.: 09-30-11

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REMARKS	DATE
ADDENDUM NO. 1	09/18/09

STATUS	DATE
DSA PLAN CHECK	08/28/08
DSA BACK CHECK	01/22/09
BIDDING / BID #681593	09/18/09
CONSTRUCTION	

FILE NO. 41-C1

GENERATION STAMP
DIV. OF THE STATE ARCHITECT

01-110074

AC FLS SS

DATE

**BUILDINGS 5 & 6
RENOVATIONS**

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

SINGLE LINE DIAGRAM

Date 08/29/08
Drawing Number
Scale AS NOTED
Project Number 07013

SHEET KEYNOTES

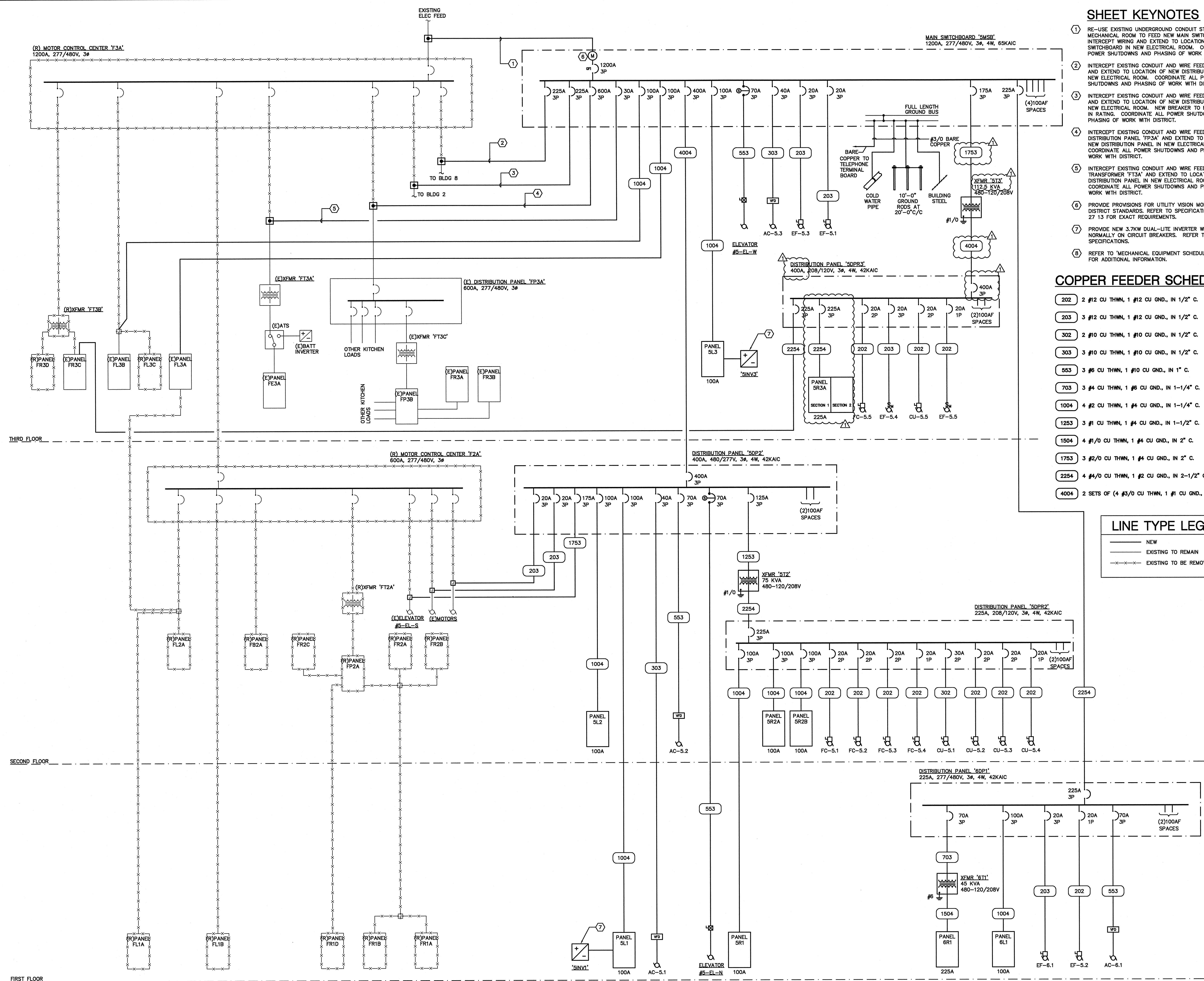
1. RE-USE EXISTING UNDERGROUND CONDUIT STUBBING IN MECHANICAL ROOM TO FEED NEW MAIN SWITCHBOARD. INTERCEPT WIRING AND EXTEND TO LOCATION OF SWITCHBOARD IN NEW ELECTRICAL ROOM. COORDINATE ALL POWER SHUTDOWNS AND PHASING OF WORK WITH DISTRICT.
2. INTERCEPT EXISTING CONDUIT AND WIRE FEEDING BUILDING 8 AND EXTEND TO LOCATION OF NEW DISTRIBUTION PANEL IN NEW ELECTRICAL ROOM. COORDINATE ALL POWER SHUTDOWNS AND PHASING OF WORK WITH DISTRICT.
3. INTERCEPT EXISTING CONDUIT AND WIRE FEEDING BUILDING 2 AND EXTEND TO LOCATION OF NEW DISTRIBUTION PANEL IN NEW ELECTRICAL ROOM. NEW BREAKER TO MATCH EXISTING IN RATING. COORDINATE ALL POWER SHUTDOWNS AND PHASING OF WORK WITH DISTRICT.
4. INTERCEPT EXISTING CONDUIT AND WIRE FEEDING DISTRIBUTION PANEL 'FP3A' AND EXTEND TO LOCATION OF NEW DISTRIBUTION PANEL IN NEW ELECTRICAL ROOM. COORDINATE ALL POWER SHUTDOWNS AND PHASING OF WORK WITH DISTRICT.
5. INTERCEPT EXISTING CONDUIT AND WIRE FEEDING TRANSFORMER 'FT3A' AND EXTEND TO LOCATION OF NEW DISTRIBUTION PANEL IN NEW ELECTRICAL ROOM. COORDINATE ALL POWER SHUTDOWNS AND PHASING OF WORK WITH DISTRICT.
6. PROVIDE PROVISIONS FOR UTILITY VISION MONITORING PER DISTRICT STANDARDS. REFER TO SPECIFICATION SECTION 26 27 13 FOR EXACT REQUIREMENTS.
7. PROVIDE NEW 3.7KW DUAL-LITE INVERTER WITH (8) 20A/1P NORMALLY ON CIRCUIT BREAKERS. REFER TO SPECIFICATIONS.
8. REFER TO 'MECHANICAL EQUIPMENT SCHEDULE', SHEET E6.1 FOR ADDITIONAL INFORMATION.

COPPER FEEDER SCHEDULE

- 202 2 #12 CU THWN, 1 #12 CU GND., IN 1/2" C.
- 203 3 #12 CU THWN, 1 #12 CU GND., IN 1/2" C.
- 302 2 #10 CU THWN, 1 #10 CU GND., IN 1/2" C.
- 303 3 #10 CU THWN, 1 #10 CU GND., IN 1/2" C.
- 553 3 #6 CU THWN, 1 #10 CU GND., IN 1" C.
- 703 3 #4 CU THWN, 1 #6 CU GND., IN 1-1/4" C.
- 1004 4 #2 CU THWN, 1 #4 CU GND., IN 1-1/4" C.
- 1253 3 #1 CU THWN, 1 #4 CU GND., IN 1-1/2" C.
- 1504 4 #1/0 CU THWN, 1 #4 CU GND., IN 2" C.
- 1753 3 #2/0 CU THWN, 1 #4 CU GND., IN 2" C.
- 2254 4 #4/0 CU THWN, 1 #2 CU GND., IN 2-1/2" C.
- 4004 2 SETS OF (4) #5/0 CU THWN, 1 #1 CU GND., IN 2" C

LINE TYPE LEGEND

- NEW
- - - EXISTING TO REMAIN
- x-x-x- EXISTING TO BE REMOVED



1 SINGLE LINE DIAGRAM
NO SCALE

PANEL '5L1' 277/480V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
100A Bus with MLO 2007-0731 CAÑADA BLDG 5/6

Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	LTG - CORRIDOR	434 L	20/1		A		20/1	744 L	LTG - MEETING ROOMS	2
2	LTG - CLASSROOMS	744 L	20/1		B		20/1	248 L	LTG - UTILITY ROOMS	4
3	LTG - CLASSROOMS	1,062 L	20/1		C		20/1	808 L	LTG - BATHROOMS, JANITOR	6
7	BATTERY INVERTER 'SIN1Y'	2,000 L	25/1		A		20/1		SPARE	8
9	SPARE		20/1		B		20/1		SPARE	10
11	SPARE		20/1		C		20/1		SPARE	12
13	SPARE		20/1		A		20/1		SPARE	14
15	SPARE		20/1		B		20/1		SPARE	16
17	SPARE		20/1		C		20/1		SPARE	18
19	SPARE		20/1		A		20/1		SPARE	20
21	SPARE		20/1		B		20/1		SPARE	22
23	SPARE		20/1		C		20/1		SPARE	24
25	SPARE		20/1		A		20/1		SPARE	26
27	SPARE		20/1		B		20/1		SPARE	28
29	SPARE		20/1		C		20/1		SPARE	30

Total Connected Load: Ph. A 3,178VA 11Amps Panel Connected Load: 6.0KVA 7.3Amps
Total Connected Load: Ph. B 992VA 4Amps Sub-Fed Connected Load: 0.0KVA 0.0Amps
Total Connected Load: Ph. C 1,870VA 7Amps Total Demand Load: 7.6KVA 9.1Amps
AIC RATING: 22KAIC

PANEL '5R1' 120/208V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
100A Bus with MLO 2007-0731 CAÑADA BLDG 5/6

Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	R - #5-123 RACEWAY	800 R	20/1		A		20/1	1,080 R	R - #5-115	2
2	R - #5-123 RACEWAY	800 R	20/1		B		20/1	1,080 R	R - #5-115	4
3	R - #5-123 RACEWAY	800 R	20/1		C		20/1	900 R	R - #5-115	6
7	R - #5-123 RACEWAY	666 R	20/1		A		20/1	900 R	R - #5-112, 5-108	8
9	R - #5-123 RACEWAY	666 R	20/1		B		20/1	540 R	R - #5-112, 5-108	10
11	R - #5-123 RACEWAY	666 R	20/1		C		20/1	900 R	R - #5-112, 5-108	12
13	R - #5-123 RACEWAY	360 R	20/1		A		20/1	1,230 R	R - #5-101S, 5-101N, 5-121	14
15	R - #5-123 RACEWAY	360 R	20/1		B		20/1	720 R	R - #5-101S, 5-101N, 5-121	16
17	R - #5-123 RACEWAY	360 R	20/1		C		20/1	720 R	R - #5-101S, 5-101N, 5-121	18
19	FIRE SMOKE DAMPERS	500 G	20/1		A		20/1	500 R	R - #5-102	20
21	ELEV. MACHINE ROOM #5-104	484 G	20/1		B		20/1	500 R	R - #5-102	22
23	(C) ELEV. CAB LTG. #5-EL-S	500 G	20/1		C		20/1	500 R	R - #5-102	24
25	(E) ELEV. CAB PWR #5-EL-S	500 G	20/1		A		20/1	800 R	R - SMART BOARD #5-108, PROJ. 5-	26
27	(E) ELEV. PIT LTG PWR #5-EL-S	500 G	20/1		B		20/1	360 R	R - SMART BOARD #5-EL-N	28
29	R - ACAMS	180 R	20/1		C		20/1	50 L	ELEV. PIT LTG PWR #5-EL-N	30
31	R - ACAMS	180 R	20/1		A		20/1	242 G	ELEV. MACHINE ROOM #5-111	32
33	UPS #5-102	500 R	30/1		B		20/1	500 G	ITCP	34
35	R - #5-102	900 R	20/1		C		20/1	500 G	DDC	36
37	SPARE		20/1		A		20/1		SPARE	38
39	SPARE		20/1		B		20/1		SPARE	40
41	SPARE		20/1		C		20/1		SPARE	42

Total Connected Load: Ph. A 7,548VA 63Amps Panel Connected Load: 20.9KVA 58.1Amps
Total Connected Load: Ph. B 6,450VA 54Amps Sub-Fed Connected Load: 0.0KVA 0.0Amps
Total Connected Load: Ph. C 6,916VA 58Amps Total Demand Load: 17.4KVA 48.2Amps
AIC RATING: 10KAIC

PANEL '6R1' 120/208V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
225A Bus with 150A Main Circuit Breaker 2007-0731 CAÑADA BLDG 5/6

Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	R - #6-103 RACEWAY	432 R	20/1		A		20/1	900 R	R - #6-111, 6-112, EXTERIOR	2
3	R - #6-103 RACEWAY	432 R	20/1		B		20/1	720 R	R - #6-111, 6-112	4
5	R - #6-103 RACEWAY	432 R	20/1		C		20/1	720 R	R - #6-111, 6-112	6
7	R - #6-103	540 R	20/1		A		20/1	720 R	R - #6-102, CAMERA	8
9	SPARE		20/1		B		20/1	720 R	R - #6-102	10
11	SPARE		20/1		C		20/1	720 R	R - #6-102	12
13	SPARE		20/1		A		20/1	720 R	R - #6-101, 6-104, 6-105A, CAMERA	14
15	R - #6-103, 6-102 PROJECTOR	800 R	20/1		B		20/1	540 R	R - #6-101, 6-105	16
17	FIRE SMOKE DAMPERS	500 G	20/1		C		20/1	540 R	R - #6-105, 6-105A	18
19	SPARE		20/1		A		20/1	180 R	R - ROOF	20
21	SPARE		20/1		B		20/1		SPARE	22
23	SPARE		20/1		C		20/1		SPARE	24
25	SPARE		20/1		A		20/1		SPARE	26
27	SPARE		20/1		B		20/1		SPARE	28
29	SPARE		20/1		C		20/1		SPARE	30
31	SPARE		20/1		A		20/1		SPARE	32
33	SPARE		20/1		B		20/1		SPARE	34
35	SPARE		20/1		C		20/1		SPARE	36
37	SPARE		20/1		A		20/1		SPARE	38
39	SPARE		20/1		B		20/1		SPARE	40
41	SPARE		20/1		C		20/1		SPARE	42

Total Connected Load: Ph. A 3,492VA 29Amps Panel Connected Load: 9.6KVA 26.7Amps
Total Connected Load: Ph. B 3,212VA 27Amps Sub-Fed Connected Load: 0.0KVA 0.0Amps
Total Connected Load: Ph. C 2,912VA 24Amps Total Demand Load: 9.6KVA 26.7Amps
AIC RATING: 10KAIC

PANEL '5L2' 277/480V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
100A Bus with MLO 2007-0731 CAÑADA BLDG 5/6

Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	LTG - CORRIDOR, MECH. SEMINAR RM	2,023 L	20/1		A		20/1		SPARE	2
3	LTG - #5-227, 5-223, 5-221	2,604 L	20/1		B		20/1		SPARE	4
5	LTG - OFFICES, MAIL ROOM	2,948 L	20/1		C		20/1		SPARE	6
7	SPARE		20/1		A		20/1		SPARE	8
9	SPARE		20/1		B		20/1		SPARE	10
11	SPARE		20/1		C		20/1		SPARE	12
13	SPARE		20/1		A		20/1		SPARE	14
15	SPARE		20/1		B		20/1		SPARE	16
17	SPARE		20/1		C		20/1		SPARE	18
19	SPARE		20/1		A		20/1		SPARE	20
21	SPARE		20/1		B		20/1		SPARE	22
23	SPARE		20/1		C		20/1		SPARE	24
25	SPARE		20/1		A		20/1		SPARE	26
27	SPARE		20/1		B		20/1		SPARE	28
29	SPARE		20/1		C		20/1		SPARE	30

Total Connected Load: Ph. A 2,020VA 7Amps Panel Connected Load: 7.6KVA 9.1Amps
Total Connected Load: Ph. B 2,604VA 9Amps Sub-Fed Connected Load: 0.0KVA 0.0Amps
Total Connected Load: Ph. C 2,948VA 11Amps Total Demand Load: 9.5KVA 11.4Amps
AIC RATING: 22KAIC

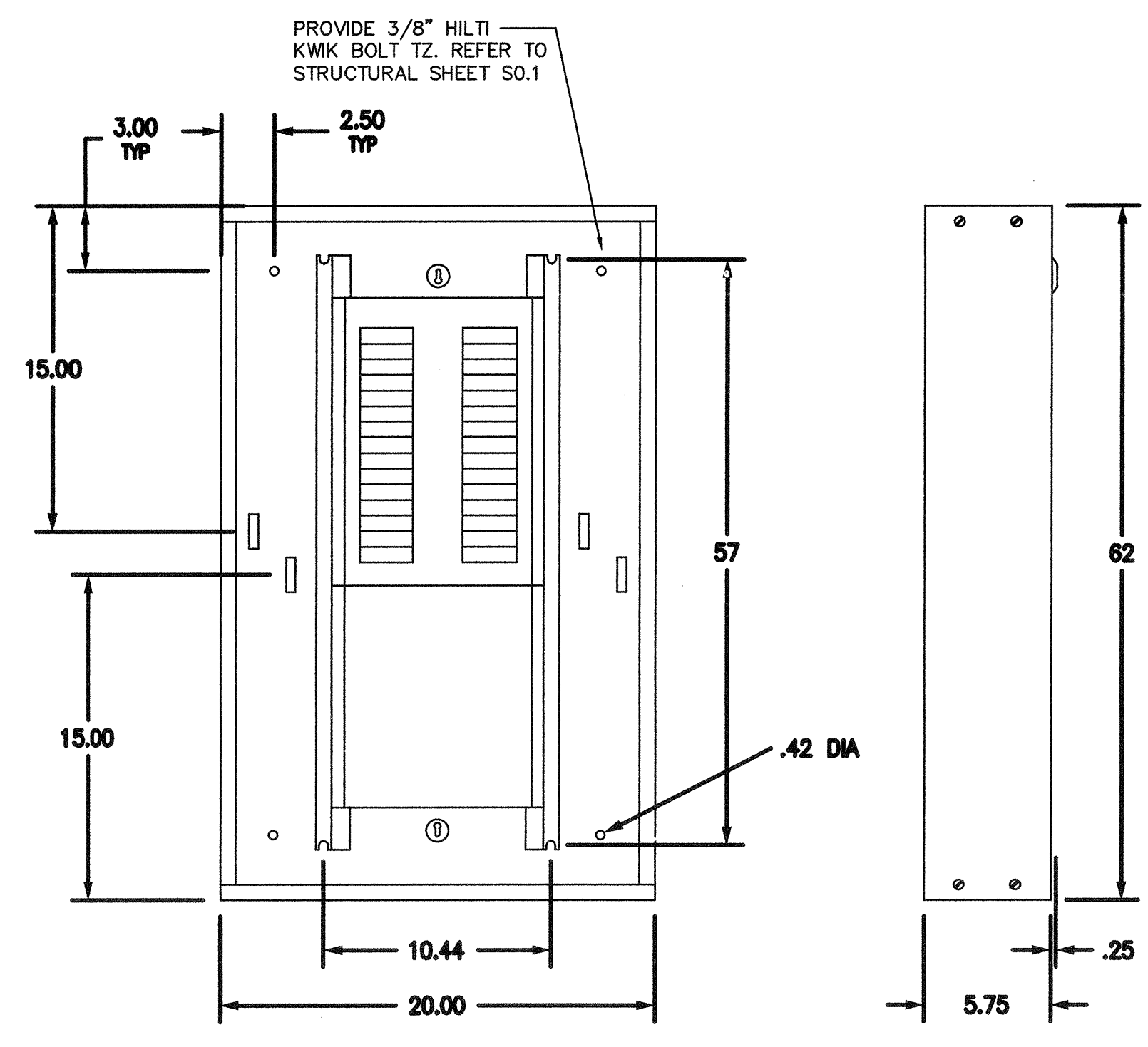
PANEL '5R2A' 120/208V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
100A Bus with MLO 2007-0731 CAÑADA BLDG 5/6

Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	R - #5-227 RACEWAY	756 R	20/1		A		20/1	1,044 R	R - #5-223 RACEWAY	2
3	R - #5-227 RACEWAY	828 R	20/1		B		20/1	792 R	R - #5-223 RACEWAY	4
5	R - #5-227 RACEWAY	792 R	20/1		C		20/1	648 R	R - #5-223 RACEWAY	6
7	R - #5-227	540 R	20/1		A		20/1	540 R	R - #5-223	8
9	R - #5-227, CAMERA	1,260 R	20/1		B		20/1		SPARE	10
11	R - #5-227 PROJECTOR	500 R	20/1		C		20/1	800 M	#5-223 MOTORIZED SCREEN	12
13	#5-227 MOTORIZED SCREEN	800 M	20/1		A		20/1	500 R	R - #5-223 PROJECTOR	14
15	R - #5-221 RACEWAY	630 R	20/1		B		20/1	500 G	FIRE SMOKE DAMPERS	16
17	R - #5-221 RACEWAY	630 R	20/1		C		20/1		SPARE	18
19	R - #5-221 RACEWAY	720 R	20/1		A		20/1		SPARE	20
21	R - #5-221	720 R	20/1		B		20/1		SPARE	22
23	SPARE		20/1		C		20/1		SPARE	24
25	#5-221 MOTORIZED SCREEN	800 M	20/1		A		20/1		SPARE	26
27	R - #5-221 PROJECTOR	500 R	20/1		B		20/1		SPARE	28
29	R - #5-221	360 R	20/1		C		20/1		SPARE	30
31	R - CAMERA, 5-201E	580 R	20/1		A		20/1		SPARE	32
33	#5-220 REFRIGERATOR	500 C	20/1		B		20/1		SPARE	34
35	SPARE		20/1		C		20/1		SPARE	36
37	SPARE		20/1		A		20/1		SPARE	38
39	SPARE		20/1		B		20/1		SPARE	40
41	SPARE		20/1		C		20/1		SPARE	42

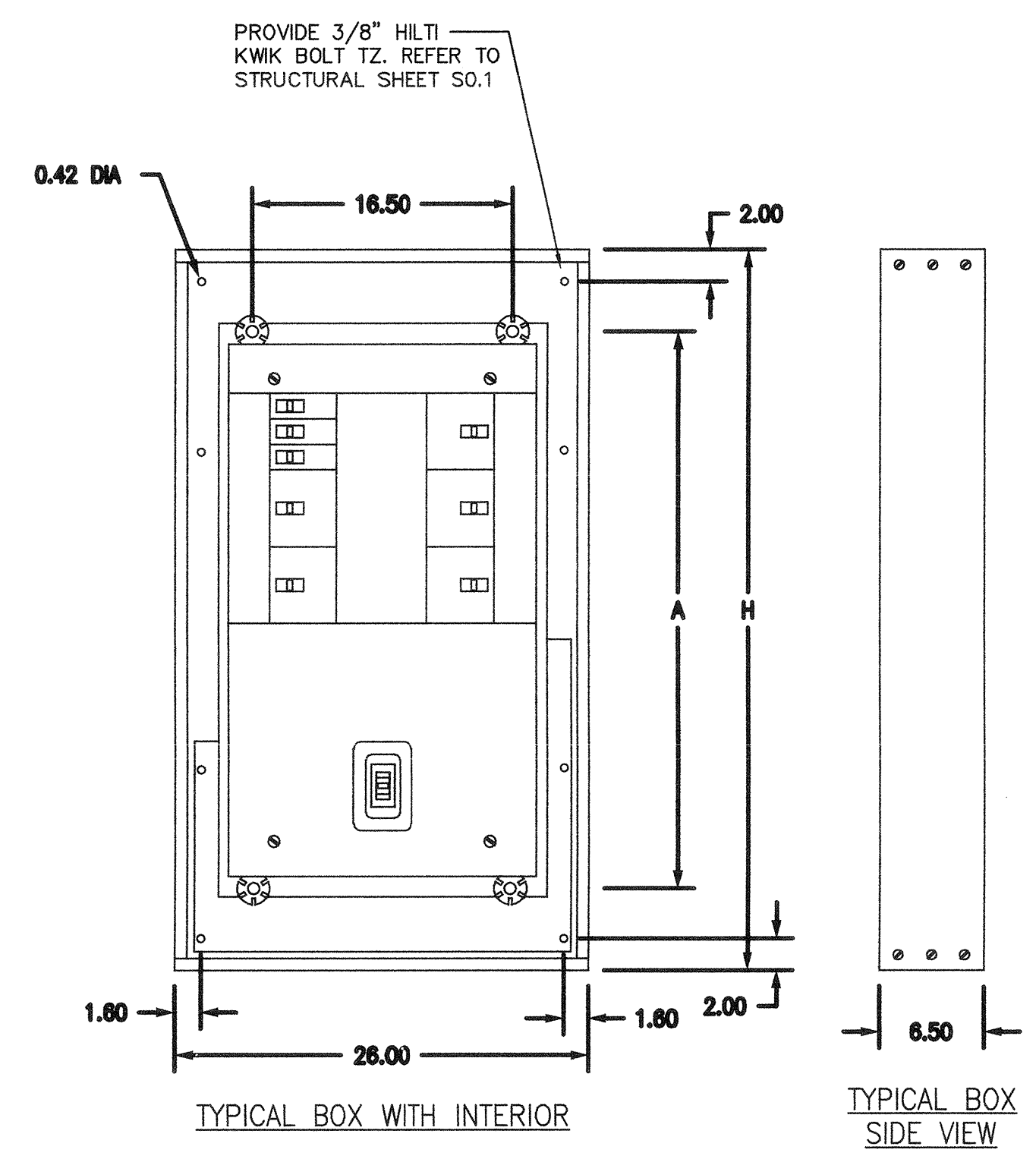
Total Connected Load: Ph. A 6,280VA 52Amps Panel Connected Load: 15.7KVA 43.7Amps
Total Connected Load: Ph. B 5,730VA 48Amps Sub-Fed Connected Load: 0.0KVA 0.0Amps
Total Connected Load: Ph. C 3,730VA 31Amps Total Demand Load: 14.9KVA 41.4Amps
AIC RATING: 10KAIC

PANEL '5R3A' (SECTION 1) 120/208V, 3 Ph., 4 W. Surface Mounted, Lighting & Appliance Branch Panelboard
225A Bus with MLO 2007-0731 CAÑADA BLDG 5/6

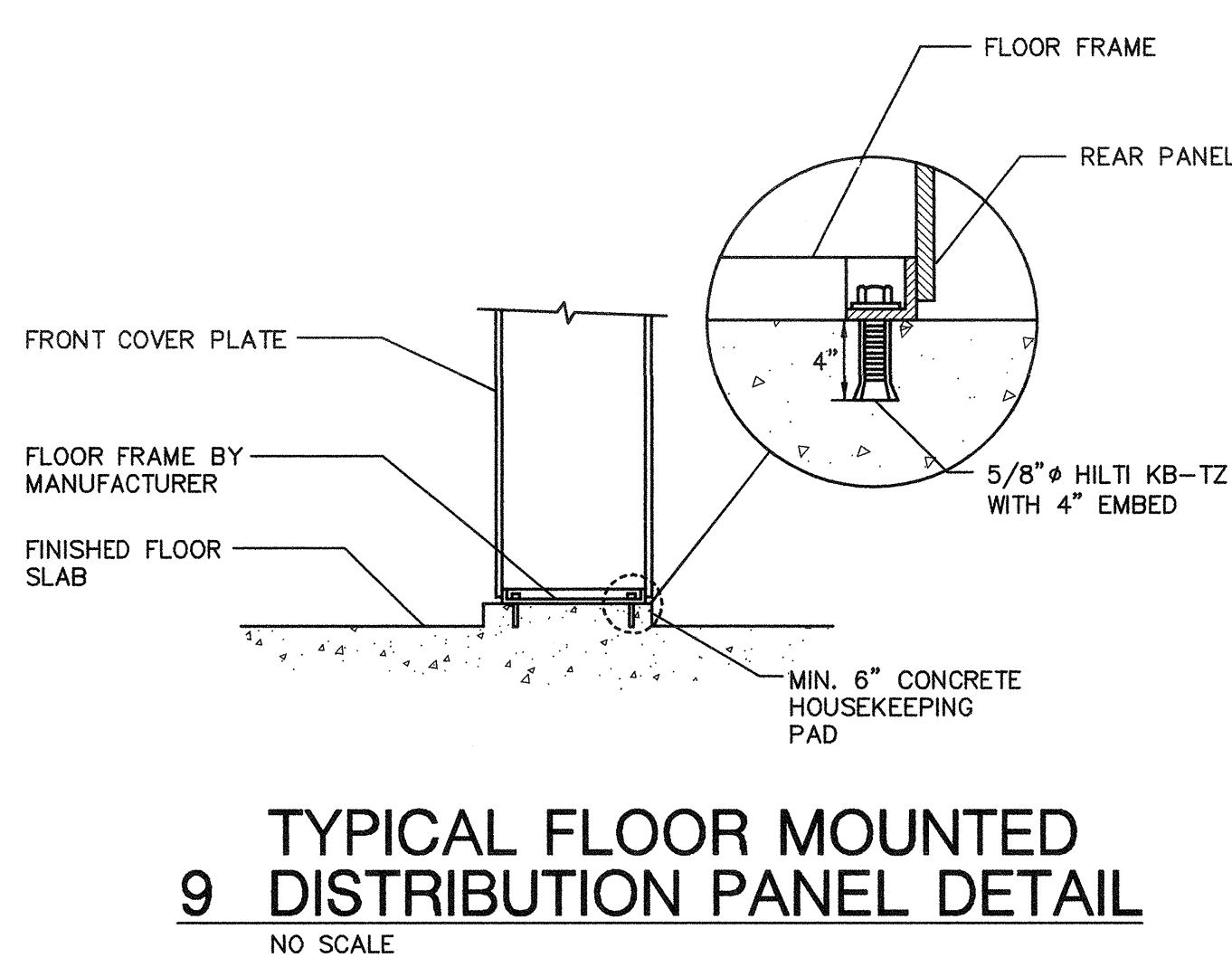
Ckt. No.	Description / Location	Load (VA) Type	C.B. A/Pole	Note	Ph.	Note	C.B. A/Pole	Load (VA) Type	Description / Location	Ckt. No.
1	R - #5-354, 5-355, 5-356	900 R	20/1		A		20/1	900 R	R - #5-350, 5-351, 5-356	2
3	R - #5-354, 5-355, 5-356	900 R	20/1		B		20/1	900 R	R - #5-350, 5-351, 5-356	4
5	R - #5-354, 5-355, 5-356	900 R	20/1		C		20/1	900 R	R - #5-350, 5-351, 5-356	6
7	R - #5-301N, 5-301E, 5-352, 5-353	900 R	20/1		A		20/1	900 R	R - #5-305, 5-306, 5-307	8
9	R - #5-301N, 5-301E, 5-352, 5-353	720 R	20/1		B		20/1	900 R	R - #5-305, 5-306, 5-307	10
11	R - #5-301N, 5-301E, 5-352, 5-353	720 R	20/1		C		20/1	1,080 R	R - #5-305, 5-306, 5-307	12
13	R - #5-303, 5-314, 5-317	1,080 R	20/1		A		20/1	720 R	R - #5-304	14
15	R - #5-303, 5-314, 5-317	1,080 R	20/1		B		20/1	900 R	R - #5-304	16
17	R - #5-314, 5-316, 5-320	1,620 R	20/1		C		20/1	1,000 R	R - #5-303 COPY MACHINE	18
19	R - #5-308 TO 5-312	360 R	20/1		A		20/1	500 G	FIRE SMOKE DAMPERS	20
21	R - #5-308 TO 5-312	360 R	20/1		B		20/1	500 G	FIRE SMOKE DAMPERS	22
23	R - #5-308 TO 5-312	360 R	20/1		C		20/1	500 G	FIRE SMOKE DAMPERS	24
25	R - #5-308 TO 5-312	720 R	20/1		A		20/1	G	ELEV. MACHINE ROOM #5-362	26



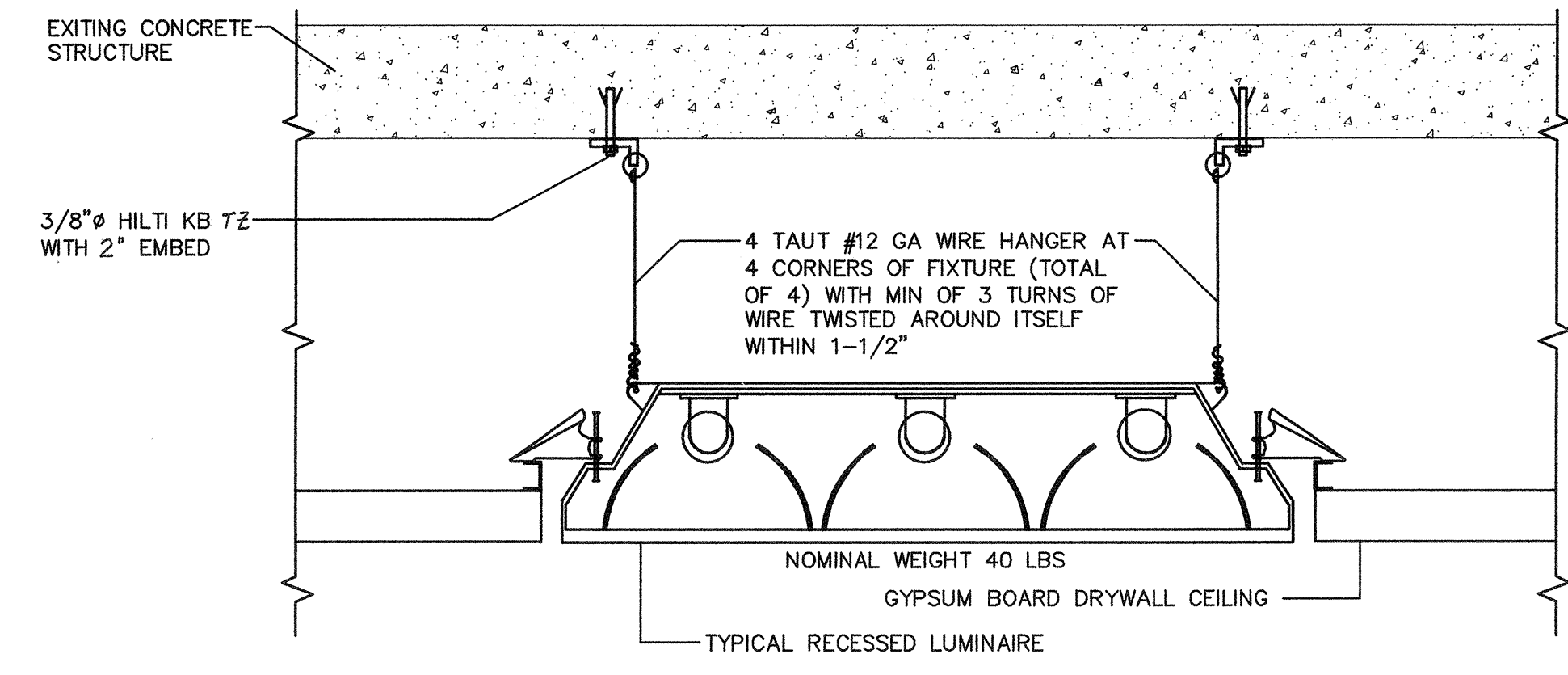
8 TYPICAL BRANCH PANELBOARD DETAIL
NO SCALE



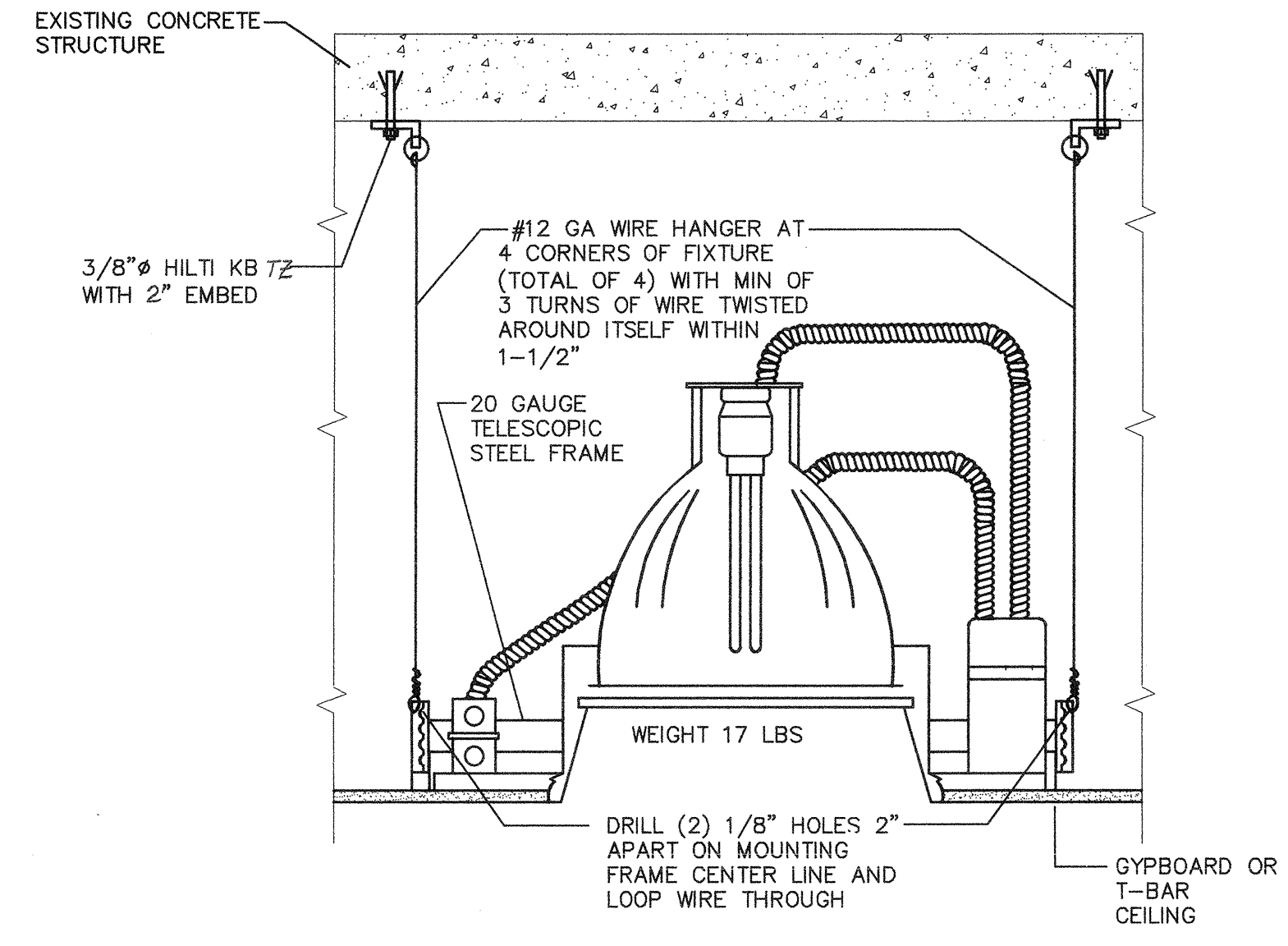
9 TYPICAL DISTRIBUTION PANEL DETAIL
NO SCALE



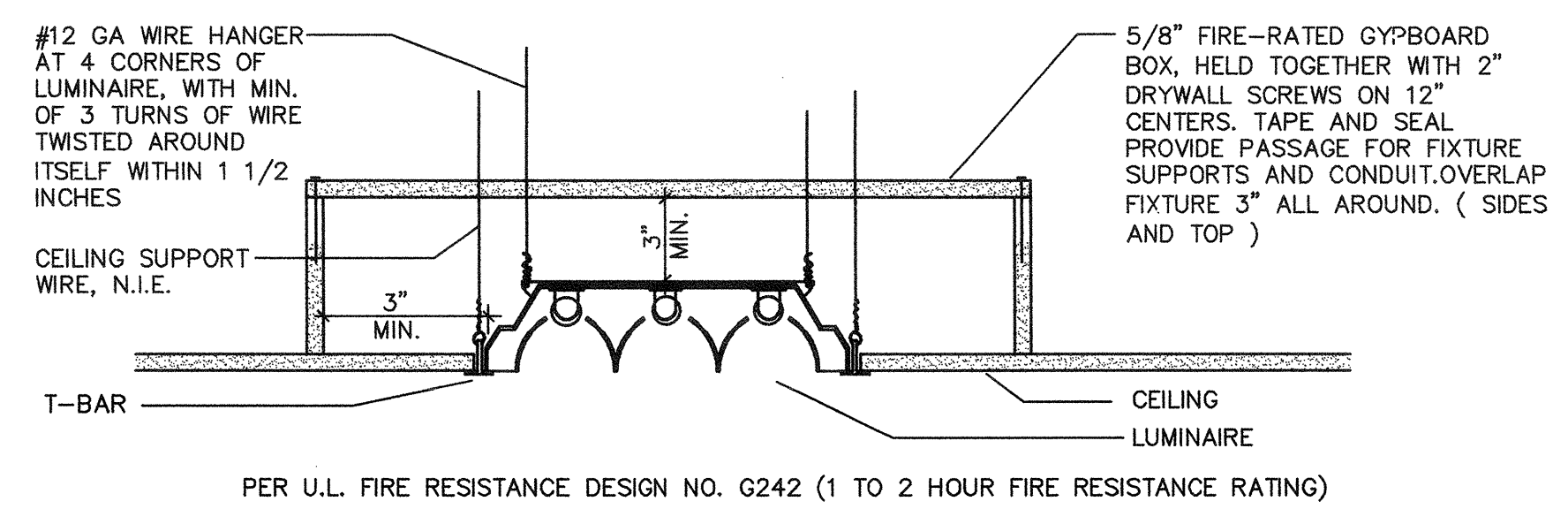
9 TYPICAL FLOOR MOUNTED DISTRIBUTION PANEL DETAIL
NO SCALE



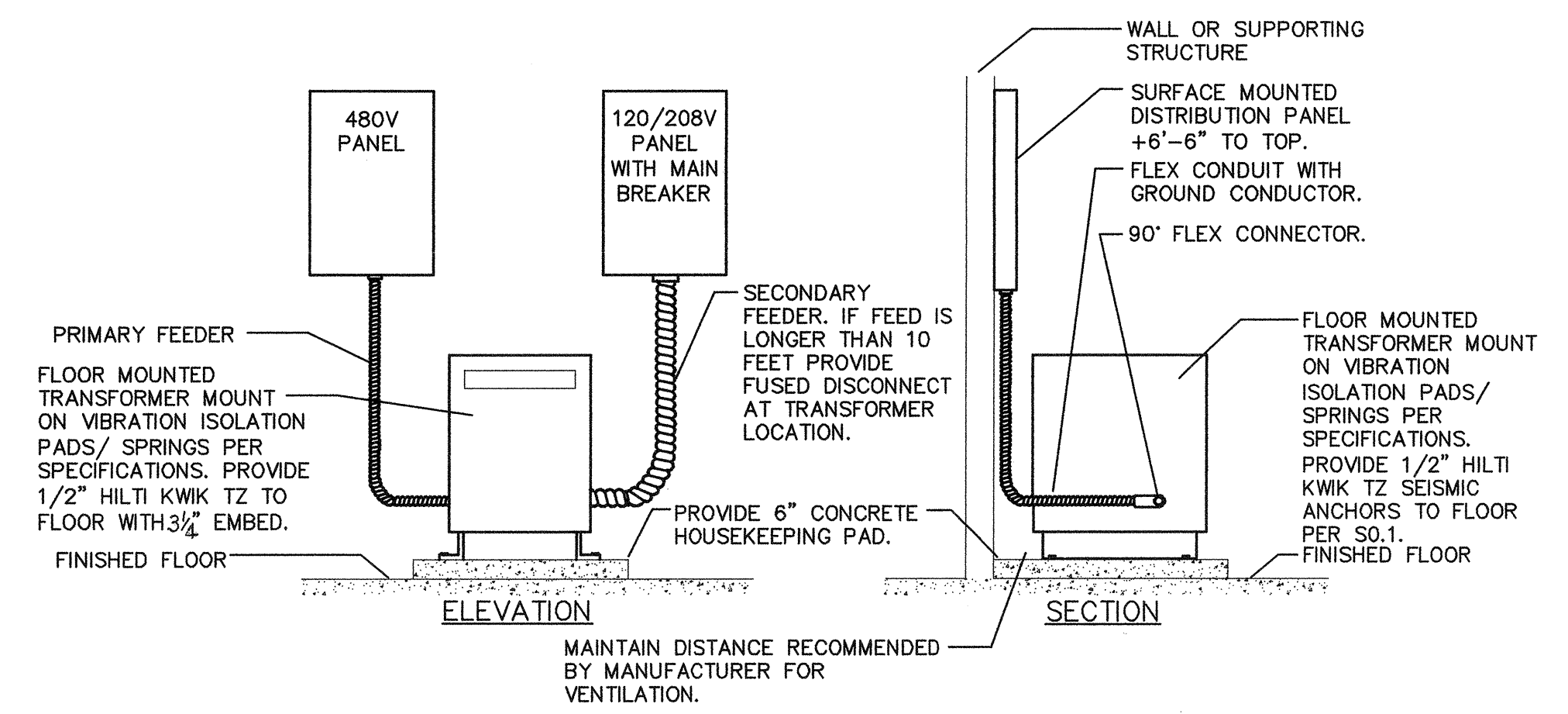
5 RECESSED FLUORESCENT LUMINAIRE HANGING METHOD
NO SCALE



6 RECESSED DOWNLIGHT LUMINAIRE
NO SCALE



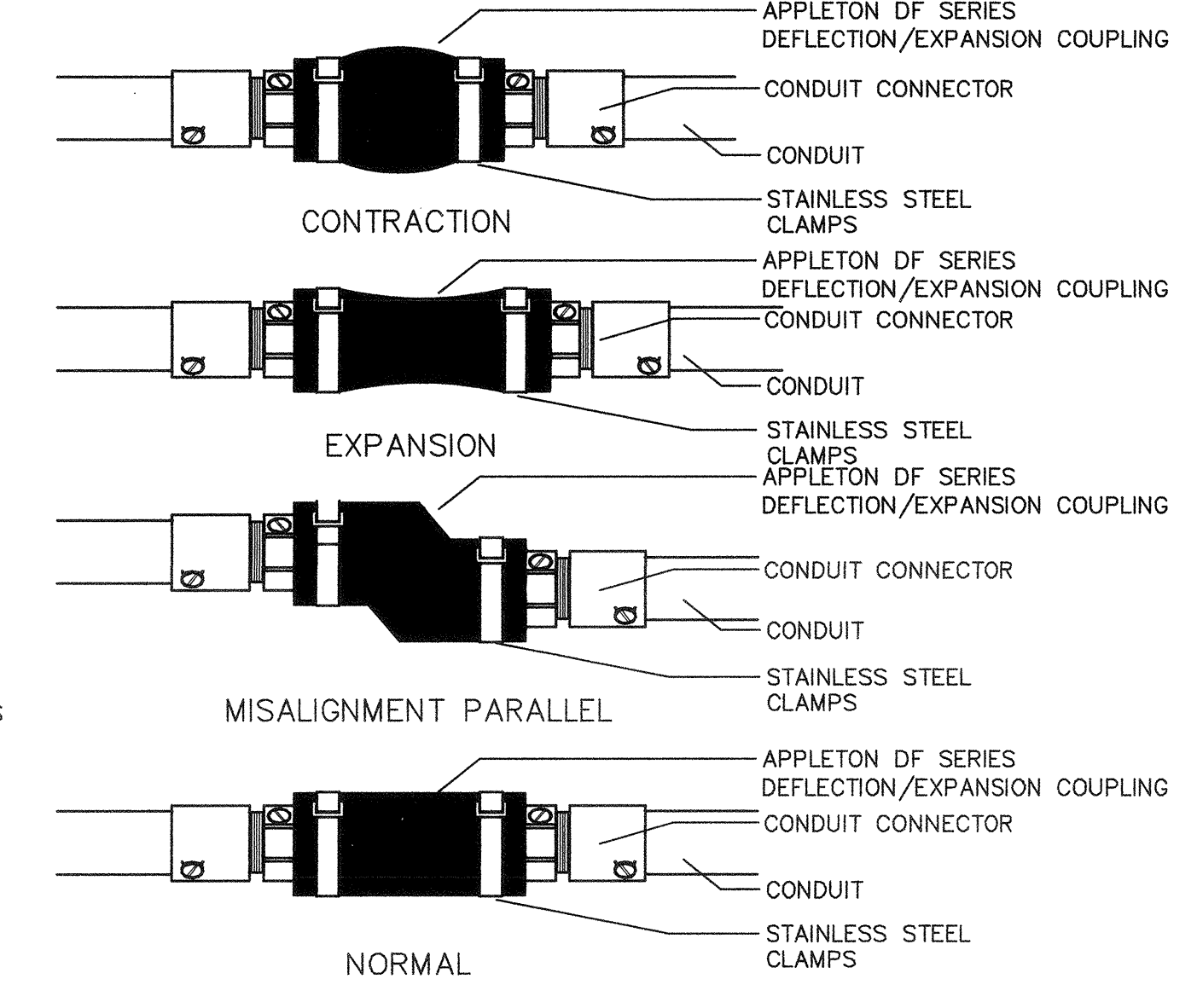
7 RECESSED LUMINAIRE IN FIRE RATED CEILING
NO SCALE



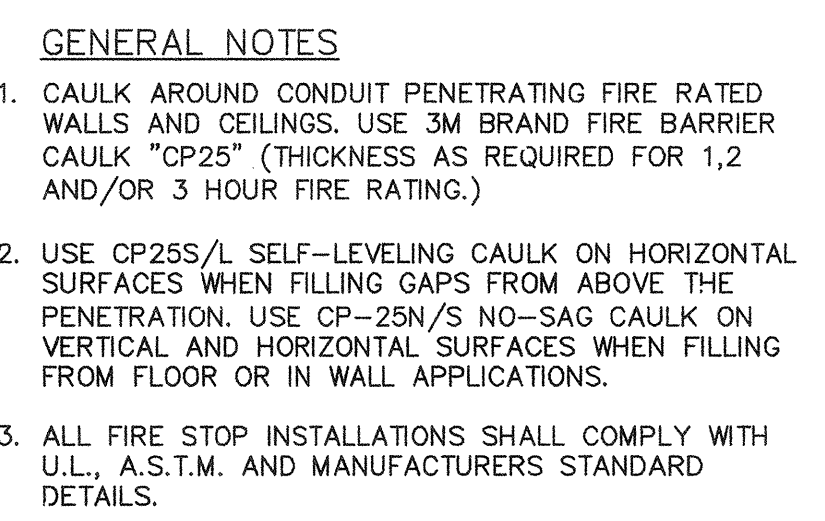
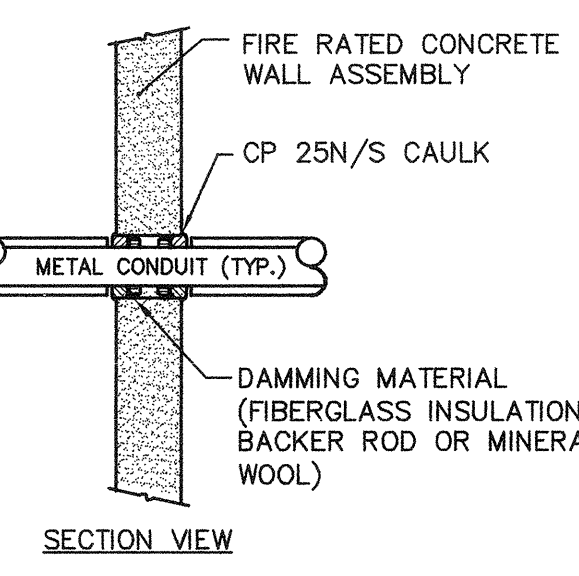
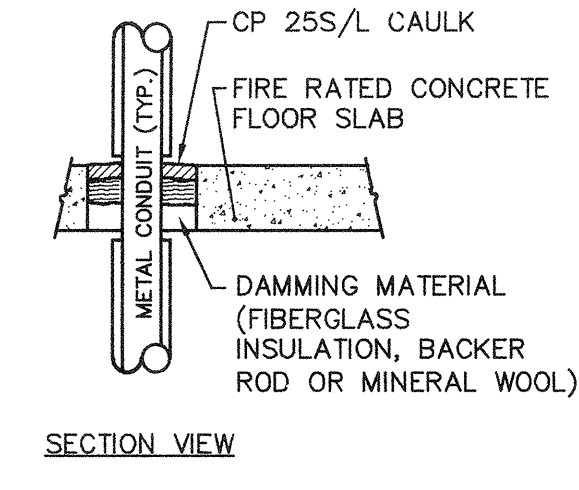
FLOOR MOUNTED TRANSFORMER DETAIL 1 FOR SURFACE MOUNTED PANELS
NO SCALE

GENERAL NOTES

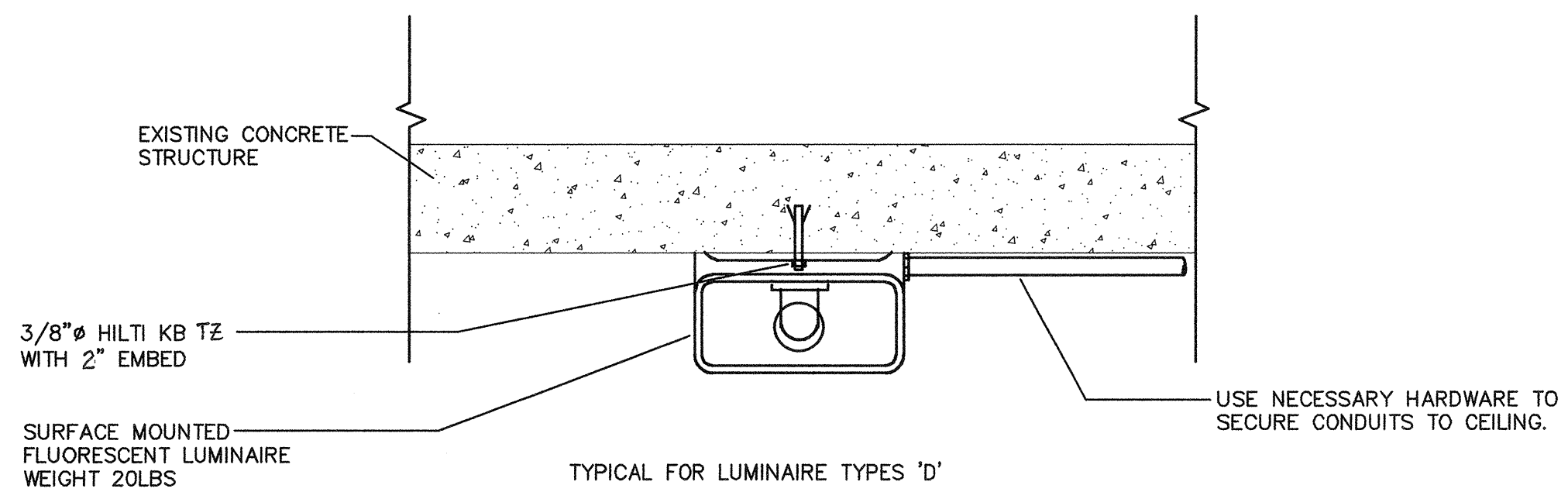
- HOT-DIPPED GALVANIZED FINISHED DUCTILE IRON COUPLING
- MOLDED NEOPRENE SLEEVE
- TINNED FLEXIBLE COPPER BRAID BONDING JUMPER
- STAINLESS STEEL BANDING CLAMPS
- UP TO 3/4" CONTRACTION/EXPANSION
- UP TO 30° ANGULAR DIRECTIONAL ROTATION
- FOR USE INDOORS, OUTDOORS OR UNDERGROUND
- FOR 1/2" TO 6" CONDUITS



2 EXPANSION/DEFLECTION FITTINGS
NO SCALE



3 RATED WALL, FLOOR, AND CEILING CONDUIT PENETRATION
NO SCALE



4 SURFACE MOUNTED FLUORESCENT LUMINAIRE MOUNTING METHOD
NO SCALE

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REVISION HISTORY	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> DSA BACK CHECK	
<input type="radio"/> BIDDING (BID #88553)	
<input type="radio"/> CONSTRUCTION	

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DIV. OF THE STATE ARCHITECT
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AC. AND FLS. MAR 19 2009
DATE

BUILDINGS 5 & 6 RENOVATIONS
San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE
4200 Farm Hill Boulevard
Redwood City, CA 94061

DETAILS
Date 01/22/09
Scale AS NOTED
Project Number 07013
Drawing Number **E7.1**